ISBN 0-7743-6194-5

ACIDIC PRECIPITATION IN ONTARIO STUDY - APIOS

DAILY PRECIPITATION CHEMISTRY LISTING

JULY 15, 1980 - DECEMBER 31, 1981

-REVISED EDITION-

January, 1983

ARD-1[illegible]-82-AR[illegible]

The Honourable
Andrew S. Brandt
Minister

[illegible]

ISBN 0-7743-8134-5

ONTARIO MINISTRY OF THE ENVIRONMENT
ACIDIC PRECIPITATION IN ONTARIO STUDY - APIOS

DAILY PRECIPITATION CHEMISTRY LISTINGS
JULY 15, 1980 - DECEMBER 31, 1981
- REVISED EDITION -

JANUARY, 1983

ARB-19a-82-ARSP

SPECIAL STUDIES UNIT
ATMOSPHERIC RESEARCH AND SPECIAL PROGRAMS SECTION
AIR RESOURCES BRANCH
880 BAY STREET,
TORONTO, ONTARIO
CANADA M5S 1Z8

ACIDIC PRECIPITATION IN ONTARIO STUDY - APIOS

DAILY PRECIPITATION CHEMISTRY LISTINGS
JULY 15, 1980 - DECEMBER 31, 1981
- REVISED EDITION -

Special Studies Unit
Atmospheric Research and Special Programs Section
Acidic Precipitation In Ontario Study
Air Resources Branch
Toronto, Ontario
Canada, M5S 1Z8

January 1983

A.P.I.O.S. Coordination Office,
Ontario Mininstry of the Environment
6th Floor, 40 St. Clair W.,
Toronto, Ontario,
Canada, M4V 1P5
Project Co-ordinator: E.W. Piche

c 1983 Her Majesty the Queen in Right of Ontario

ACKNOWLEDGEMENTS

This report was prepared by Richard Kirk, APIOS Atmospheric Deposition and Chemistry Program Database Scientist. However, the data themselves are a product of the combined efforts of many individuals. Precipitation samples were collected by a large number of site operators, whose names cannot be individually mentioned here, under the coordination of the APIOS environmental technicans Steve Elliott (in Southwestern Region), Paul Kehoe (in Southeastern Region), Wim Smits (in Northwestern Region) and J.P. Varto (in Central Region). Sample handling was carried out by Daniel Orr, Liane Skelton and Gregory Brown at the Air Resource Branch. Chemical Analysis were performed at the Laboratory Services Branch under the coordination of Frank Tomassimi. All equiries regarding the reported data should be directed to Walter Chan, the APIOS Atmospheric Deposition and Chemistry Program Leader (416) 965-1634.

TABLE OF CONTENTS

		Page
PART I	INTRODUCTION	II
PART II	STATION DESCRIPTION AND LOCATION MAP	V
PART III	DAILY PRECIPITATION CHEMISTRY LISTINGS	

Region	Ref. No.	Station Name	
Southwestern	01	Melbourne	1
	02	Longwoods	16
	03	North Easthope	34
	04	Wellesley	55
Central	05	Raven Lake	67
	06	Balsam Lake	79
	07	Nithgrove	94
	08	Dorset	106
Southeastern	09	Whitman Creek	127
	10	Railton	139
	11	Charleston Lake	157
	12	Graham Lake	172
Northwestern	13	Forbes Township	187
	14	Quetico Centre	193
	15	Lac La Croix	196
	16	Fernberg	202

PART I

INTRODUCTION

INTRODUCTION

This data listings report of the daily precipitation results is a revised edition of the previous report "Daily Precipitaiton Chemistry Listings and Statistical Summaries, July 15, 1980 - December 31, 1981", #ARB-11-82-ARSP. The data have been revised by implementation of a more stringent set of screening criteria.

The data listed herein are a summary of the results acquired from the APIOS daily precipitation sampling network from start-up time (partial operation July, 1980) to December 31, 1981. All data presented in this report have been screened for validity. Remarks and qualifications have been appended to records, and/or results where necessary. The sceening procedure inovlved checking each record for chemical analysis integrity (e.g - ionic balance, observed vs. theoretical conductance). Gross limit checks were applied by comparing each analytical result with the approximate 97.5 percentile as obtained from the cumulative frequency distribution. The data was also screened for outliers statistically by applying the Dixon Ratio test to the highest and lowest values observed in each region on a daily basis. Outliers were determined at the 95% level of confidence. Records and/or results deemed unreliable are flagged but not deleted.

Samplers utilized for daily precipitation collection include the Aerochem Metrics and SES (Sudbury Environemntal Study) types. The primary instrumentation is the Aerochem Metrices type for rain sampling and the SES type for snow/rain sampling. At the Dorset, Kingston and London station clusters, the Aerochem Metrics types was utilized from May 1 to October 31 and in the Thunder Bay cluster, from May 1 to September 30. The SES type was utilized from November 1 to April 30 in the Dorset, Kingston and London station clusters and from October 1 to April 30 in the Thunder Bay station cluster.

Station Identification

The station identification is defined by four descriptive fields (e.g. - Dorset/Daily/Aerochem #08). The first field refers to the sampling location. The second and third fields describe the sampling interval and the instrumentation used respectively. The last numeric field refers to the index code utilized on the location map. All data listings are ordered by the map index code.

Daily Precipitation Chemistry Listings

Sample type, as coded in the data listings, represents the best guess as to the type of event which was sampled. All chemical analyses were done on unfiltered samples. Lab pH entries represent pH measurements at the main MOE Laboratory in Toronto while field pH entries represent measurements at regional laboratories. Remark codes (e.g. U,A) appended to individual results are defined in a later section. The tabulated results for "Free H" were calculated from the reported Lab pH. Total hydrogen, reported at "Total H" represent a titration of the sample with NaOH to an end point pH of 8.3.

Calculation of Equivalent Precipitation Depth (mm)

Aerochem Metrics Instrumentation:

$$\text{Equivalent Precipitation Depth (mm)} = \frac{\text{Volume Collected (ml)}}{1000} \times 15.6$$

SES Instrumentation:

$$\text{Equivalent Precipitation Depth (mm)} = \frac{\text{Volume Collected (ml)}}{1000} \times 6.1$$

Calculation of Observed Sampling Efficiency

$$\%\ \text{Efficiency} = \frac{\text{Equivalent Precipitation Depth (mm)}}{\text{Gauge Depth (mm)}} \times 100\ \%$$

Field Comment Code Index

A - Insects in sample
B - Leaves in sample
C - Particulates in sample
D - Fibres in sample
E - Sample not submitted
F - Sampler malfunctioned
G - Sample spilled or leaked
H - Volume incorrect
I - Event(s) missed
J - Wet side open when not precipitating
K - No precipitation collected
L - Part of event missed
Q - Other

Office Comment Code Index

C - poor calculated vs. observed conductance comparison
J - ΔpH Large
L - One of more parameters high
M - Poor ionic balance
N - Abnormal sampler efficiency
X - Sample lost
Y - collected sample remained in sampler in excess of 24 hours
Z - non-standard collection period

Result Remark Code Index

> - actual results greater than value reported
< - actual result less than value reported
<T - actual result less than criterion of detection
<W - no response, minimum possible results reported
A - approximate value
U - unreliable result

RK/mb/AR30-24

PART II

STATION DESCRIPTION AND LOCATION MAP

ONTARIO
Ministry of the Environment
Ontario
NETWORK STATION LOCATIONS
1 MELBOURNE
2 LONGWOODS
3 N. EASTHOPE
4 WELLESLEY
5 RAVEN LAKE
6 BALSAM LAKE
7 NITHGROVE
8 DORSET
9 WHITMAN CREEK
10 RAILTON
11 CHARLESTON LAKE
12 GRAHAM LAKE
13 FORBES TOWNSHIP
14 QUETICO CENTRE
15 LAC LA CROIX
16 PERRIBERG

APIOS EVENT DEPOSITION NETWORK SITE LOCATIONS

AREA	MOE REGION	STATION NAME	ELEVATION (m above MSL)	LATITUDE (North)	LONGITUDE (West)	UTM COORDINATES (Northing)	(Easting)
London	Southwestern	Longwoods Conservations Area	239	42°53'	81°29'	4747850	460700
		Melbourne	213	42°47'	81°33'	4736850	454600
		North Easthope	375	43°20'	80°53'	4805650	508650
		Wellesley	344	43°28'	80°46'	4812650	519500
Dorset	Central	Dorset Lab	320	45°13'	78°56'	5009600	662450
		Nithgrove	325	45°12'	79°04'	5006800	651600
		Balsam Lake Provincial Park	259	44°38'	78°51'	4943400	670070
		Raven Lake	274	44°37'	78°54'	4941600	665750
Kingston	Southeastern	Charleston Lake Provincial Park	92	44°30'	76°03'	4927500	417150
		Graham Lake	130	44°35'	75°52'	4936750	431450
		Railton	137	44°29'	76°49'	4927200	355100
		Whitman Creek	137	44°29'	76°49'	4927200	355100
Thunder Bay	Northwestern	Fernberg	506	47°50'	91°52'	5316000	583000
		Lac la Croix	368	48°21'	92°12'	5356000	558200
		Forbes Twsp.	324	48°38'	89°37'	5388000	308000
		Quetico Centre	420	48°43'	91°12'	5399000	632000

PART III

DAILY PRECIPITATION CHEMISTRY LISTINGS

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM #01

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 01-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
NOV 4.80	NOV 3.80	800	800	****	****	1	1.1	1	240	2	1	80	CF	L
NOV 5.80	NOV 4.80	800	900	****	1000	1	0.4	1	2174	2	1	****	EFI	
NOV 7.80	NOV 6.80	900	900	****	****	1	0.6	1	242	2	1	36		N
NOV 8.80	NOV 7.80	900	900	****	****	1	4.2	1	243	2	1	95		
NOV 9.80	NOV 8.80	900	900	****	****	1	0.4	1	244	2	1	11		N
NOV 14.80	NOV 13.80	900	900	****	****	1	2.2	1	245	2	1	82	D	
NOV 18.80	NOV 17.80	900	900	****	****	2	0.4	1	246	2	1	58	D	
NOV 22.80	NOV 21.80	900	900	800	1000	1	****	*	2175	2	1	****	E	
NOV 24.80	NOV 23.80	800	800	****	****	1	****	*	2176	2	1	****	E	
NOV 25.80	NOV 24.80	800	900	****	****	3	3.4	1	249	2	1	48		N
NOV 29.80	NOV 28.80	900	900	****	****	2	7.0	1	250	2	1	48		N
DEC 2.80	DEC 1.80	900	900	230	900	1	14.5	1	251	2	1	120		NC
DEC 3.80	DEC 2.80	900	900	****	****	2	****	*	252	2	1	****		
DEC 7.80	DEC 6.80	900	900	****	****	1	4.6	1	253	2	1	100		C
DEC 9.80	DEC 8.80	900	900	****	****	3	12.5	2	254	2	1	89		
DEC 10.80	DEC 9.80	900	900	****	****	2	1.6	1	255	2	1	71		
DEC 12.80	DEC 11.80	900	900	****	****	2	1.2	1	256	2	1	****		
DEC 17.80	DEC 16.80	900	900	****	****	2	0.6	1	2177	2	1	****	E	
DEC 24.80	DEC 23.80	900	900	****	****	2	11.0	1	258	2	1	78		J
DEC 30.80	DEC 29.80	900	900	****	****	2	****	*	259	2	1	****		
JAN 4.81	JAN 3.81	900	900	****	****	2	3.2	1	260	2	1	15		N
JAN 16.81	JAN 15.81	900	900	****	****	2	****	*	261	2	1	****		L
JAN 17.81	JAN 16.81	900	900	****	****	2	****	*	262	2	1	****		L
JAN 28.81	JAN 27.81	900	900	****	****	2	****	*	263	2	1	****		L
JAN 29.81	JAN 28.81	900	900	****	****	2	****	*	2178	2	1	****	BIE	
JAN 30.81	JAN 29.81	900	900	****	****	2	****	*	264	2	1	****		
FEB 1.81	JAN 31.81	900	900	****	****	2	****	*	265	2	1	****		L
FEB 2.81	FEB 1.81	900	900	****	****	3	****	*	266	2	1	****		
FEB 3.81	FEB 2.81	900	900	****	****	2	****	*	267	2	1	****		
FEB 10.81	FEB 9.81	900	900	****	****	2	****	*	2475	2	1	****		
MAY 10.81	MAY 9.81	900	900	****	****	1	2.4	1	18001	2	1	91	A	
MAY 11.81	MAY 10.81	900	900	****	****	1	11.2	1	18002	2	1	91		
MAY 12.81	MAY 11.81	900	900	****	****	1	8.0	1	18003	2	1	94		
MAY 15.81	MAY 14.81	900	900	900	900	1	5.6	1	18004	2	1	88		
MAY 16.81	MAY 15.81	900	900	****	****	1	1.8	1	18005	2	1	28		N
MAY 25.81	MAY 24.81	900	900	****	****	1	1.4	1	18006	2	1	45		N
MAY 27.81	MAY 26.81	900	900	****	****	1	1.0	1	18007	2	1	71		
MAY 28.81	MAY 27.81	900	900	****	****	1	4.8	1	18008	2	1	80		
MAY 30.81	MAY 29.81	900	900	****	****	1	3.6	1	18009	2	1	91		
JUN 3.81	JUN 2.81	900	900	****	****	1	1.2	1	18010	2	1	83		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM #01

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 UG/L	SULPHATE MG/L	NITRATE AS N MG/L
NOV 4.80	NOV 3.80	57.	*****	*****	U 6.96	******	U 11.60	U 3.24
NOV 5.80	NOV 4.80	*****	*****	*****	*****	******	*****	*****
NOV 7.80	NOV 6.80	U 14.	*****	*****	*****	******	*****	*****
NOV 8.80	NOV 7.80	256.	26.5	*****	4.58	0.0628	3.55	0.89
NOV 9.80	NOV 8.80	U 3.	*****	*****	*****	******	*****	*****
NOV 14.80	NOV 13.80	116.	*****	*****	4.14	******	3.70	0.94
NOV 18.80	NOV 17.80	15.	*****	*****	6.36	******	*****	*****
NOV 22.80	NOV 21.80	*****	*****	*****	*****	******	*****	*****
NOV 24.80	NOV 23.80	*****	*****	*****	*****	******	*****	*****
NOV 25.80	NOV 24.80	U 106.	*****	*****	4.43	******	2.50	0.70
NOV 29.80	NOV 28.80	U 219.	52.0	*****	3.92	******	3.05	1.08
DEC 2.80	DEC 1.80	1120.	38.0	3.87	3.97	0.1256	2.60	0.75
DEC 3.80	DEC 2.80	23.	*****	*****	4.31	******	*****	*****
DEC 7.80	DEC 6.80	297.	34.5	*****	4.84	0.1112	3.00	0.65
DEC 9.80	DEC 8.80	716.	20.0	4.26	4.38	0.0668	2.05	0.25
DEC 10.80	DEC 9.80	73.	*****	*****	5.46	******	0.75	0.21
DEC 12.80	DEC 11.80	*****	*****	*****	U 6.31	******	*****	*****
DEC 17.80	DEC 16.80	*****	*****	*****	*****	******	*****	*****
DEC 24.80	DEC 23.80	552.	8.1	4.25	5.30	0.0412	0.55	0.36
DEC 30.80	DEC 29.80	145.	*****	*****	*****	******	*****	*****
JAN 4.81	JAN 3.81	U 32.	*****	*****	U 6.22	******	*****	*****
JAN 16.81	JAN 15.81	44.	*****	*****	3.67	******	8.80	4.55
JAN 17.81	JAN 16.81	75.	*****	*****	U 5.39	******	1.70	1.36
JAN 28.81	JAN 27.81	207.	*****	*****	4.40	0.0924	5.40	0.98
JAN 29.81	JAN 28.81	*****	*****	*****	*****	******	*****	*****
JAN 30.81	JAN 29.81	28.	*****	*****	U 6.86	******	*****	*****
FEB 1.81	JAN 31.81	436.	29.5	*****	4.43	0.0768	3.75	0.54
FEB 2.81	FEB 1.81	32.	*****	*****	4.76	******	*****	*****
FEB 3.81	FEB 2.81	4.	*****	*****	*****	******	*****	*****
FEB 10.81	FEB 9.81	29.	*****	*****	*****	******	*****	*****
MAY 10.81	MAY 9.81	79.	*****	*****	3.88	******	14.50	U 1.16
MAY 11.81	MAY 10.81	659.	37.2	4.07	4.09	0.1096	3.35	0.45
MAY 12.81	MAY 11.81	486.	24.8	4.23	4.33	0.0746	2.35	0.36
MAY 15.81	MAY 14.81	319.	58.0	*****	4.07	0.1486	3.15	1.00
MAY 16.81	MAY 15.81	U 33.	*****	*****	3.52	******	> 10.00	> 2.00
MAY 25.81	MAY 24.81	U 41.	*****	*****	3.85	******	4.40	1.46
MAY 27.81	MAY 26.81	46.	*****	*****	3.64	******	12.20	2.80
MAY 28.81	MAY 27.81	247.	58.0	*****	3.89	0.1640	5.30	1.20
MAY 30.81	MAY 29.81	211.	*****	*****	5.08	******	0.90	0.19
JUN 3.81	JUN 2.81	64.	*****	*****	3.98	******	5.90	1.18

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM #01

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
NOV 4,80	NOV 3,80	*****	*****	*****	*****	*****	*****	U 0.0001
NOV 5,80	NOV 4,80	*****	*****	*****	*****	*****	*****	******
NOV 7,80	NOV 6,80	*****	*****	*****	*****	*****	*****	******
NOV 8,80	NOV 7,80	0.97	0.16	0.105	0.060	0.050	0.920	0.0263
NOV 9,80	NOV 8,80	*****	*****	*****	*****	*****	*****	******
NOV 14,80	NOV 13,80	0.89	0.24	0.130	0.100	0.160	*****	0.0724
NOV 18,80	NOV 17,80	*****	*****	*****	*****	*****	*****	0.0004
NOV 22,80	NOV 21,80	*****	*****	*****	*****	*****	*****	******
NOV 24,80	NOV 23,80	*****	*****	*****	*****	*****	*****	******
NOV 25,80	NOV 24,80	0.29	0.38	0.040	0.180	0.270	*****	0.0372
NOV 29,80	NOV 28,80	0.20	0.27	0.030	0.050	0.120	0.306	0.1202
DEC 2,80	DEC 1,80	0.16	0.18	0.025	0.030	0.080	0.370	0.1072
DEC 3,80	DEC 2,80	*****	*****	*****	*****	*****	*****	0.0490
DEC 7,80	DEC 6,80	0.20	0.23	0.030	0.050	0.170	0.440	0.0912
DEC 9,80	DEC 8,80	0.10	0.27	0.025	0.050	0.140	0.286	0.0417
DEC 10,80	DEC 9,80	*****	0.29	*****	*****	*****	*****	0.0035
DEC 12,80	DEC 11,80	*****	*****	*****	*****	*****	*****	U 0.0005
DEC 17,80	DEC 16,80	*****	*****	*****	*****	*****	*****	******
DEC 24,80	DEC 23,80	0.54	0.22	0.095	0.020	0.090	0.082	0.0050
DEC 30,80	DEC 29,80	*****	*****	*****	*****	*****	*****	******
JAN 4,81	JAN 3,81	*****	*****	*****	*****	*****	*****	U 0.0006
JAN 16,81	JAN 15,81	*****	2.10	*****	*****	*****	*****	0.2138
JAN 17,81	JAN 16,81	*****	0.54	*****	*****	*****	*****	U 0.0041
JAN 28,81	JAN 27,81	1.26	1.12	0.235	0.060	0.280	1.570	0.0398
JAN 29,81	JAN 28,81	*****	*****	*****	*****	*****	*****	******
JAN 30,81	JAN 29,81	*****	*****	*****	*****	*****	*****	U 0.0001
FEB 1,81	JAN 31,81	0.80	0.52	0.140	0.040	0.360	0.410	0.0372
FEB 2,81	FEB 1,81	*****	*****	*****	*****	*****	*****	0.0174
FEB 3,81	FEB 2,81	*****	*****	*****	*****	*****	*****	******
FEB 10,81	FEB 9,81	*****	*****	*****	*****	*****	*****	******
MAY 10,81	MAY 9,81	*****	0.44	*****	*****	*****	*****	0.0318
MAY 11,81	MAY 10,81	0.15	0.11	0.015	0.020	0.050	0.284	0.0013
MAY 12,81	MAY 11,81	0.12	0.09	0.015	0.030	0.060	0.332	0.0468
MAY 15,81	MAY 14,81	*****	0.32	*****	*****	*****	0.720	0.0051
MAY 16,81	MAY 15,81	*****	0.64	*****	*****	*****	*****	0.3020
MAY 25,81	MAY 24,81	*****	0.56	*****	*****	*****	*****	0.1413
MAY 27,81	MAY 26,81	*****	0.72	*****	*****	*****	*****	0.2291
MAY 28,81	MAY 27,81	0.26	0.28	0.040	0.100	0.130	0.720	0.1288
MAY 30,81	MAY 29,81	0.12	0.14	0.020	0.040	0.110	0.216	0.0100
JUN 3,81	JUN 2,81	*****	0.39	*****	*****	*****	*****	0.1259

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM #01

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JUN 4.81	JUN 3.81	900	900	****	****	1	5.6	1	18011	2	1	93		
JUN 9.81	JUN 8.81	900	900	****	****	1	11.2	1	18012	2	1	104	A	
JUN 10.81	JUN 9.81	900	900	****	800	1	1.4	1	18013	2	1	63		
JUN 14.81	JUN 13.81	900	900	****	****	1	14.2	1	18014	2	1	97	A	
JUN 15.81	JUN 14.81	900	900	****	****	1	12.8	1	18015	2	1	101		
JUN 17.81	JUN 16.81	900	900	****	****	1	3.6	1	18016	2	1	82		
JUN 20.81	JUN 19.81	900	900	****	****	1	3.0	1	18018	2	1	89		
JUN 21.81	JUN 20.81	900	900	****	****	1	5.8	1	18017	2	1	83		
JUN 22.81	JUN 21.81	900	900	****	****	1	20.6	1	18019	2	1	102		
JUN 25.81	JUN 24.81	900	900	****	****	1	1.6	1	18020	2	1	70		
JUL 1.81	JUN 30.81	900	900	****	****	1	3.8	1	18021	2	1	77		
JUL 10.81	JUL 9.81	900	900	****	****	1	1.0	1	18022	2	1	73		
JUL 18.81	JUL 17.81	900	900	****	****	1	11.2	1	18023	2	1	100		
JUL 19.81	JUL 18.81	900	900	****	****	1	1.2	1	18024	2	1	118	C	
JUL 20.81	JUL 19.81	900	900	****	****	1	10.6	1	18025	2	1	90		
JUL 27.81	JUL 26.81	900	900	****	****	1	1.4	1	18026	2	1	111		
AUG 5.81	AUG 4.81	900	900	2000	2100	1	5.6	1	18029	2	1	100	AC	
AUG 6.81	AUG 5.81	900	900	****	****	1	4.0	1	18030	2	1	86		
AUG 8.81	AUG 7.81	900	900	****	****	1	5.8	1	18031	2	1	96	A	
AUG 9.81	AUG 8.81	900	900	****	****	1	3.2	1	18032	2	1	70		
AUG 11.81	AUG 10.81	900	900	****	****	1	3.2	1	18033	2	1	76		
AUG 12.81	AUG 11.81	900	900	****	****	1	0.8	1	18034	2	1	87	C	
AUG 14.81	AUG 13.81	900	900	****	****	1	9.8	1	18035	2	1	101		
AUG 15.81	AUG 14.81	900	900	****	****	1	9.0	1	18036	2	1	94		
AUG 16.81	AUG 15.81	900	900	****	****	1	2.2	1	18037	2	1	79		
AUG 28.81	AUG 27.81	900	900	****	****	1	4.6	1	18038	2	1	64		
AUG 31.81	AUG 30.81	900	900	****	****	1	6.0	1	18039	2	1	91		
SEP 2.81	SEP 1.81	900	900	****	****	1	9.6	1	18040	2	1	97	A	
SEP 4.81	SEP 3.81	900	900	****	****	1	19.2	1	18041	2	1	100		
SEP 8.81	SEP 7.81	900	1600	****	****	*	3.8	1	18042	2	1	87		
SEP 17.81	SEP 16.81	1630	1630	****	****	1	25.0	1	18043	2	1	149		N
SEP 19.81	SEP 18.81	1630	1930	****	****	1	3.0	1	18044	2	1	89	A	
SEP 21.81	SEP 20.81	1630	1630	****	****	1	3.0	1	18045	2	1	86		
SEP 22.81	SEP 21.81	1630	1630	****	****	1	18.9	1	18046	2	1	99		
SEP 25.81	SEP 24.81	1630	1630	****	****	1	1.6	1	18047	2	1	61	C	
SEP 26.81	SEP 25.81	1630	1630	****	****	1	2.2	1	18048	2	1	60		
SEP 29.81	SEP 28.81	1630	1630	****	****	1	0.8	1	18049	2	1	85	C	
OCT 1.81	SEP 30.81	1630	1630	****	****	1	45.2	1	18050	2	1	138		N
OCT 2.81	OCT 1.81	1630	1630	****	****	3	7.2	1	18051	2	1	70		
OCT 6.81	OCT 5.81	1630	1630	****	****	1	****	*	18052	2	1	****		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM #01

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JUN 4,81	JUN 3,81	337.	34.6	*****	4.13	0.1038	3.35	0.41
JUN 9,81	JUN 8,81	750.	29.4	*****	4.34	0.0792	3.80	0.47
JUN 10,81	JUN 9,81	57.	*****	*****	4.13	******	6.70	0.83
JUN 14,81	JUN 13,81	884.	39.8	*****	4.04	0.1250	3.95	0.43
JUN 15,81	JUN 14,81	831.	13.4	*****	4.61	0.0514	1.30	0.14
JUN 17,81	JUN 16,81	190.	*****	*****	4.26	******	3.70	0.55
JUN 20,81	JUN 19,81	172.	*****	*****	3.68	******	11.60	1.62
JUN 21,81	JUN 20,81	309.	76.0	*****	3.78	0.1958	8.35	0.90
JUN 22,81	JUN 21,81	1351.	24.5	*****	4.26	0.0818	2.20	0.34
JUN 25,81	JUN 24,81	72.	*****	*****	3.84	******	7.00	1.46
JUL 1,81	JUN 30,81	190.	*****	*****	4.22	******	3.40	0.51
JUL 10,81	JUL 9,81	47.	*****	*****	4.32	******	12.50	1.60
JUL 18,81	JUL 17,81	722.	52.0	*****	4.02	0.1294	4.80	0.78
JUL 19,81	JUL 18,81	91.	*****	*****	3.54	******	U 18.20	U 3.10
JUL 20,81	JUL 19,81	614.	54.0	*****	3.97	0.1404	5.60	0.53
JUL 27,81	JUL 26,81	100.	*****	*****	3.82	******	8.30	0.36
AUG 5,81	AUG 4,81	360.	53.5	*****	4.23	0.1112	8.55	0.86
AUG 6,81	AUG 5,81	222.	*****	*****	3.99	******	4.60	0.65
AUG 8,81	AUG 7,81	360.	32.1	*****	4.19	0.0996	2.70	0.50
AUG 9,81	AUG 8,81	145.	*****	*****	4.18	******	3.15	0.50
AUG 11,81	AUG 10,81	156.	*****	*****	4.02	******	7.15	1.03
AUG 12,81	AUG 11,81	45.	*****	*****	4.06	******	*****	*****
AUG 14,81	AUG 13,81	636.	33.2	*****	4.46	0.0892	4.60	0.71
AUG 15,81	AUG 14,81	544.	51.5	*****	3.99	0.1426	4.30	0.67
AUG 16,81	AUG 15,81	112.	*****	*****	3.92	******	6.80	0.55
AUG 28,81	AUG 27,81	190.	*****	*****	3.36	******	21.50	2.11
AUG 31,81	AUG 30,81	352.	31.6	*****	4.24	0.0868	3.40	0.45
SEP 2,81	SEP 1,81	600.	45.0	3.96	4.01	0.1210	4.25	0.52
SEP 4,81	SEP 3,81	1237.	32.8	4.09	4.15	0.0952	2.70	0.46
SEP 8,81	SEP 7,81	213.	*****	*****	3.99	******	4.95	0.66
SEP 17,81	SEP 16,81	2401.	19.2	4.30	4.44	0.0648	1.50	0.22
SEP 19,81	SEP 18,81	172.	*****	*****	4.78	******	4.75	1.29
SEP 21,81	SEP 20,81	167.	*****	*****	3.68	******	13.70	2.38
SEP 22,81	SEP 21,81	1206.	43.5	3.97	4.03	0.1258	3.75	0.71
SEP 25,81	SEP 24,81	63.	*****	*****	4.06	******	7.15	1.06
SEP 26,81	SEP 25,81	85.	*****	*****	3.93	******	6.20	1.25
SEP 29,81	SEP 28,81	44.	*****	*****	4.54	******	4.05	0.50
OCT 1,81	SEP 30,81	4005.	21.8	4.30	4.36	0.0700	2.05	0.21
OCT 2,81	OCT 1,81	325.	8.8	*****	4.85	0.0486	1.40	0.03
OCT 6,81	OCT 5,81	446.	33.2	*****	4.25	0.0896	2.90	0.56

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM #01

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JUN 4,81	JUN 3,81	0.23	0.28	0.035	0.030	0.040	0.220	0.0741
JUN 9,81	JUN 8,81	0.30	0.30	0.040	0.050	0.050	0.800	0.0457
JUN 10,81	JUN 9,81	*****	0.52	*****	*****	*****	*****	0.0741
JUN 14,81	JUN 13,81	0.09	0.19	0.010	0.010	0.030	0.346	0.0912
JUN 15,81	JUN 14,81	0.04	0.15	0.100	0.200	0.060	0.154	0.0245
JUN 17,81	JUN 16,81	0.30	0.26	0.065	0.030	0.110	0.570	0.0550
JUN 20,81	JUN 19,81	0.89	0.34	0.130	0.090	0.120	1.520	0.2089
JUN 21,81	JUN 20,81	0.34	0.18	0.065	0.090	0.090	1.040	0.1660
JUN 22,81	JUN 21,81	0.10	0.06	0.010	0.010	0.020	0.208	0.0550
JUN 25,81	JUN 24,81	*****	0.47	*****	*****	*****	*****	0.1445
JUL 1,81	JUN 30,81	0.21	0.10	0.065	0.200	0.060	0.480	0.0603
JUL 10,81	JUL 9,81	*****	2.00	*****	*****	*****	*****	0.0479
JUL 18,81	JUL 17,81	0.48	0.32	0.110	0.050	0.100	0.490	0.0955
JUL 19,81	JUL 18,81	U 2.93	1.11	0.565	0.250	U 0.580	*****	0.2884
JUL 20,81	JUL 19,81	0.07	0.16	0.010	0.010	0.090	0.600	0.1072
JUL 27,81	JUL 26,81	0.13	0.32	0.015	0.030	0.320	*****	0.1514
AUG 5,81	AUG 4,81	0.93	0.34	0.185	0.090	U 0.200	U 1.680	0.0589
AUG 6,81	AUG 5,81	0.20	0.40	0.025	0.030	0.300	0.300	0.1023
AUG 8,81	AUG 7,81	0.17	0.12	0.040	0.020	0.010	0.260	0.0646
AUG 9,81	AUG 8,81	0.19	0.45	0.040	0.040	U 0.470	0.234	0.0661
AUG 11,81	AUG 10,81	0.75	0.50	0.155	0.090	0.270	1.180	0.0955
AUG 12,81	AUG 11,81	*****	*****	*****	*****	*****	*****	0.0871
AUG 14,81	AUG 13,81	1.09	0.27	0.170	0.070	0.140	0.720	0.0347
AUG 15,81	AUG 14,81	0.24	0.20	0.040	0.020	0.150	0.206	0.1023
AUG 16,81	AUG 15,81	0.15	0.48	0.025	0.040	U 0.520	*****	0.1202
AUG 28,81	AUG 27,81	0.78	0.72	0.140	0.160	U 0.410	1.260	0.4365
AUG 31,81	AUG 30,81	0.18	0.26	0.020	0.050	0.240	0.440	0.0575
SEP 2,81	SEP 1,81	0.16	0.20	0.025	0.040	0.150	0.334	0.0977
SEP 4,81	SEP 3,81	0.11	0.18	<T 0.005	0.020	0.030	0.224	0.0708
SEP 8,81	SEP 7,81	0.16	0.38	0.035	0.050	0.260	0.590	0.1023
SEP 17,81	SEP 16,81	0.04	0.04	0.020	0.010	0.020	0.146	0.0363
SEP 19,81	SEP 18,81	1.74	0.56	0.260	0.190	0.450	0.980	0.0166
SEP 21,81	SEP 20,81	2.70	0.75	0.230	0.150	0.420	1.710	0.2089
SEP 22,81	SEP 21,81	0.24	0.16	0.040	U 0.300	U 0.100	0.430	0.0933
SEP 25,81	SEP 24,81	*****	0.51	*****	*****	*****	*****	0.0871
SEP 26,81	SEP 25,81	0.95	0.28	0.155	0.090	0.130	*****	0.1175
SEP 29,81	SEP 28,81	*****	1.04	*****	*****	*****	*****	0.0288
OCT 1,81	SEP 30,81	0.06	<T 0.01	<T 0.005	<T 0.010	0.040	0.148	0.0437
OCT 2,81	OCT 1,81	0.06	0.10	<T 0.005	0.030	0.190	0.178	0.0141
OCT 6,81	OCT 5,81	0.20	0.23	0.030	0.030	0.210	0.440	0.0562

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM #01

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
OCT 7,81	OCT 6,81	1630	1630	****	****	1	2.4	1	18053	2	1	30	C	N
OCT 9,81	OCT 8,81	1630	1630	****	****	1	4.4	1	18054	2	1	25	CD	N
OCT 17,81	OCT 16,81	1630	1630	****	****	1	1.2	1	18055	2	1	39	D	N
OCT 18,81	OCT 17,81	1630	1630	****	****	1	18.2	1	18056	2	1	100		
OCT 21,81	OCT 20,81	800	800	****	****	1	7.4	1	18057	2	1	80		
OCT 23,81	OCT 22,81	800	800	****	****	3	18.6	1	18058	2	1	92		
OCT 26,81	OCT 25,81	800	800	****	****	1	3.4	1	18059	2	1	87		
OCT 27,81	OCT 26,81	800	800	****	****	1	6.0	1	18060	2	1	101		
OCT 28,81	OCT 27,81	800	800	****	****	1	5.2	1	18061	2	1	78		
NOV 6,81	NOV 5,81	800	800	****	****	1	7.4	1	18062	2	1	75		
NOV 7,81	NOV 6,81	800	800	****	****	1	8.4	1	18063	2	1	75		C
NOV 20,81	NOV 19,81	800	800	****	****	1	15.0	1	18064	2	1	88		
NOV 21,81	NOV 20,81	800	800	****	****	3	****	*	18065	2	1	****	C	
NOV 22,81	NOV 21,81	800	800	****	****	2	13.6	1	18066	2	1	63	C	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM #01

REMOVAL DATE	EXPOSURE DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD		PH LAB	TOTAL H+ TO PH8.3 UG/L	SULPHATE MG/L	NITRATE AS N MG/L
OCT 7.81	OCT 6.81	U	47.	*****	*****	U	5.55	******	*****	*****
OCT 9.81	OCT 8.81	U	71.	*****	*****	U	5.24	******	1.35	0.05
OCT 17.81	OCT 16.81	U	30.	*****	*****		4.58	******	*****	*****
OCT 18.81	OCT 17.81		1171.	22.8	4.29		4.27	0.0964	1.90	0.27
OCT 21.81	OCT 20.81		383.	53.0	3.95		4.01	0.1366	4.40	1.31
OCT 23.81	OCT 22.81		1098.	14.4	4.46		4.44	0.0632	1.20	0.15
OCT 26.81	OCT 25.81		190.	31.3	*****		4.18	0.0948	*****	*****
OCT 27.81	OCT 26.81		389.	27.7	4.20		4.22	0.0966	2.30	0.30
OCT 28.81	OCT 27.81		263.	18.1	*****		4.42	0.0672	1.65	0.20
NOV 6.81	NOV 5.81		360.	33.6	4.24		4.24	0.0960	2.15	0.74
NOV 7.81	NOV 6.81		405.	3.9	5.82		5.96	0.0228	0.50	<T 0.01
NOV 20.81	NOV 19.81		853.	37.4	4.13		4.18	0.1064	3.15	0.72
NOV 21.81	NOV 20.81		562.	9.6	5.39		5.35	0.0644	1.95	0.25
NOV 22.81	NOV 21.81		553.	40.0	4.09		4.16	0.1100	4.40	0.54

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM #01

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
OCT 7,81	OCT 6,81	*****	*****	*****	*****	*****	*****	U 0.0028
OCT 9,81	OCT 8,81	*****	0.23	*****	*****	*****	0.196	U 0.0058
OCT 17,81	OCT 16,81	*****	*****	*****	*****	*****	*****	0.0263
OCT 18,81	OCT 17,81	0.16	0.07	0.020	0.010	0.090	0.148	0.0537
OCT 21,81	OCT 20,81	0.64	0.27	0.070	0.080	0.140	0.940	0.0977
OCT 23,81	OCT 22,81	0.04	0.06	<T 0.005	<T 0.010	0.030	0.080	0.0363
OCT 26,81	OCT 25,81	0.13	*****	0.005	0.010	0.340	0.056	0.0661
OCT 27,81	OCT 26,81	0.05	0.18	<T 0.005	0.020	0.140	0.142	0.0603
OCT 28,81	OCT 27,81	0.08	0.24	<T 0.005	0.020	0.270	0.192	0.0380
NOV 6,81	NOV 5,81	0.21	0.36	0.030	0.060	0.270	0.358	0.0575
NOV 7,81	NOV 6,81	0.08	0.10	<T 0.005	0.030	0.170	0.146	0.0011
NOV 20,81	NOV 19,81	0.30	0.15	0.040	0.030	0.100	0.490	0.0661
NOV 21,81	NOV 20,81	0.13	0.18	<T 0.005	0.020	0.150	0.570	0.0045
NOV 22,81	NOV 21,81	0.50	0.48	0.065	0.100	0.390	0.460	0.0692

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/SES #01 PAGE : 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
FEB 6.81	FEB 5.81	900	900	****	****	2	****	*	268	2	1	****	C	L
FEB 11.81	FEB 10.81	900	900	****	****	3	****	*	269	2	1	****		
FEB 17.81	FEB 16.81	900	900	****	****	1	****	*	1627	2	1	****		
FEB 18.81	FEB 17.81	900	900	****	****	1	0.4	1	1628	2	1	60		
FEB 19.81	FEB 18.81	900	800	****	****	1	0.4	2	1629	2	1	57		
FEB 20.81	FEB 19.81	800	800	****	****	1	5.8	2	1630	2	1	105		
FEB 23.81	FEB 22.81	900	900	****	****	1	17.0	2	1631	2	1	101		
FEB 24.81	FEB 23.81	900	900	****	****	1	0.8	2	1632	2	1	166	C	CN
FEB 25.81	FEB 24.81	900	900	****	****	3	0.4	2	1633	2	1	118		
FEB 28.81	FEB 27.81	900	900	****	****	1	6.2	2	1634	2	1	109	C	
MAR 5.81	MAR 4.81	900	900	****	****	2	0.6	2	1635	2	1	85		
MAR 6.81	MAR 5.81	900	900	****	****	2	1.6	2	1636	2	1	52		
MAR 10.81	MAR 9.81	900	900	****	****	2	1.2	2	1637	2	1	86		
MAR 11.81	MAR 10.81	900	900	****	****	2	1.2	2	1638	2	1	54	C	
MAR 14.81	MAR 13.81	900	900	****	****	2	2.4	2	1639	2	1	39	C	N
MAR 17.81	MAR 16.81	900	900	****	****	2	2.0	2	1640	2	1	10	H	N
MAR 21.81	MAR 20.81	900	900	****	****	2	2.4	2	1641	2	1	65		
MAR 27.81	MAR 26.81	900	900	****	****	1	4.6	2	1642	2	1	118	AC	
MAR 30.81	MAR 29.81	900	900	****	****	1	1.6	2	1643	2	1	152	AC	N
MAR 31.81	MAR 30.81	900	900	****	****	1	2.2	2	1644	2	1	104		
APR 1.81	MAR 31.81	900	900	****	800	1	****	*	1645	2	1	****	AC	
APR 9.81	APR 8.81	900	900	****	****	1	2.0	2	1646	2	1	92	C	
APR 11.81	APR 10.81	900	900	****	****	1	8.0	1	1647	2	1	108	ACD	
APR 12.81	APR 11.81	900	900	****	****	1	3.2	1	1648	2	1	114	AC	
APR 13.81	APR 12.81	900	900	****	****	1	4.4	1	1649	2	1	86	C	
APR 14.81	APR 13.81	900	900	****	****	1	31.6	1	1650	2	1	116	A	
APR 17.81	APR 16.81	900	900	****	****	1	4.4	1	2012	2	1	14	CQ	N
APR 18.81	APR 17.81	900	900	****	****	1	17.4	1	2013	2	1	78	AB	
APR 23.81	APR 22.81	900	900	****	****	1	24.2	1	2014	2	1	101	ACQ	J
APR 24.81	APR 23.81	900	1030	****	****	1	****	*	2015	2	1	****		N
APR 25.81	APR 24.81	900	900	****	****	1	0.4	1	2016	2	1	28		
APR 28.81	APR 27.81	900	900	****	****	1	16.6	1	2017	2	1	104	A	
APR 29.81	APR 28.81	900	900	****	****	1	8.6	1	2018	2	1	98		
DEC 1.81	NOV 30.81	800	800	****	****	1	30.2	2	18067	2	1	23		NM
DEC 2.81	DEC 1.81	800	800	****	****	1	10.0	2	18068	2	1	102	C	
DEC 5.81	DEC 4.81	800	800	****	****	2	5.4	2	18069	2	1	52		
DEC 8.81	DEC 7.81	800	800	****	****	1	1.0	2	18070	2	1	57	C	
DEC 9.81	DEC 8.81	800	800	****	****	2	4.5	2	18071	2	1	24		NM
DEC 10.81	DEC 9.81	800	800	****	****	2	10.0	2	18072	2	1	19		CNM
DEC 14.81	DEC 13.81	800	800	****	****	2	1.6	2	18073	2	1	17	C	N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/SES #01

REMOVAL DATE	EXPOSURE DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L		SULPHATE MG/L		NITRATE AS N MG/L	
FEB 6.81	FEB 5.81		200.	37.0	*****		4.16	******		0.90		1.56	
FEB 11.81	FEB 10.81		3222.	26.1	4.05		4.22	0.0834		1.95		0.39	
FEB 17.81	FEB 16.81		391.	57.0	*****		3.96	0.1496		4.35		0.66	
FEB 18.81	FEB 17.81		40.	*****	*****		3.30	******		30.00		5.40	
FEB 19.81	FEB 18.81		38.	*****	*****		3.71	******		*****		*****	
FEB 20.81	FEB 19.81		1007.	90.0	*****		3.75	0.2234		7.95		1.26	
FEB 23.81	FEB 22.81		2833.	29.0	4.07		4.24	0.0912		2.25		0.43	
FEB 24.81	FEB 23.81		218.	31.5	*****		4.64	******		2.95		0.60	
FEB 25.81	FEB 24.81		78.	*****	*****	U	6.64	******	U	3.75	U	1.02	
FEB 28.81	FEB 27.81		1108.	62.0	3.77		3.95	0.1608		6.25		0.95	
MAR 5.81	MAR 4.81		84.	*****	*****		4.21	******		*****		*****	
MAR 6.81	MAR 5.81		137.	*****	*****		3.62	******		9.40		3.60	
MAR 10.81	MAR 9.81		170.	*****	*****		4.22	******		5.85		3.40	
MAR 11.81	MAR 10.81		107.	*****	*****		4.21	******	U	6.15	U	2.50	
MAR 14.81	MAR 13.81	U	156.	*****	*****	U	6.90	******		1.50		0.13	
MAR 17.81	MAR 16.81	U	34.	*****	*****	U	7.55	******		*****		*****	
MAR 21.81	MAR 20.81		258.	19.8	*****		4.56	0.0590		2.20		0.38	
MAR 27.81	MAR 26.81		894.	46.8	4.37		4.44	0.0864		6.95		1.55	
MAR 30.81	MAR 29.81		400.	48.5	4.17		4.32	0.1002		7.75		0.97	
MAR 31.81	MAR 30.81		376.	17.6	4.79		4.94	0.0476		2.80		0.48	
APR 1.81	MAR 31.81		60.	*****	*****	U	7.27	******		*****		*****	
APR 9.81	APR 8.81		302.	51.5	*****	U	7.15	0.0414		7.75		1.37	
APR 11.81	APR 10.81		1419.	19.6	4.87	U	5.70	0.0360		3.75		0.92	
APR 12.81	APR 11.81		600.	22.8	4.80	U	5.80	0.0406		4.90		0.75	
APR 13.81	APR 12.81		621.	32.4	4.15		4.17	0.0996		4.05		0.34	
APR 14.81	APR 13.81		6024.	44.5	*****		4.03	0.1260		4.05		0.55	
APR 17.81	APR 16.81	U	101.	*****	*****	U	7.52	******	U	10.00		1.17	
APR 18.81	APR 17.81		2251.	18.6	4.96		5.03	0.0474		2.90		0.55	
APR 23.81	APR 22.81		4027.	22.0	5.05	U	6.93	0.0488		3.85		0.38	
APR 24.81	APR 23.81		1461.	28.6	4.30		4.30	0.0834		2.70		0.63	
APR 25.81	APR 24.81	U	19.	*****	*****	U	6.34	******		*****		*****	
APR 28.81	APR 27.81		2836.	35.0	4.19		4.27	0.0920		3.75		0.72	
APR 29.81	APR 28.81		1384.	59.0	3.92		3.99	0.1534		5.40		0.99	
DEC 1.81	NOV 30.81	U	1147.	9.0	4.84		4.75	0.0560		0.80		0.14	
DEC 2.81	DEC 1.81		1674.	31.8	4.21		4.26	0.1106		2.20		0.67	
DEC 5.81	DEC 4.81		466.	10.2	5.85		5.66	0.0396		1.60		0.26	
DEC 8.81	DEC 7.81		94.	*****	*****	U	6.66	******		5.75		1.93	
DEC 9.81	DEC 8.81	U	183.	*****	*****	U	6.56	******		7.90		1.60	
DEC 10.81	DEC 9.81	U	316.	5.1	*****		5.98	0.0340		0.60		0.04	
DEC 14.81	DEC 13.81	U	45.	*****	*****	U	6.08	******		3.85		0.59	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/SES #01

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
FEB 6.81	FEB 5.81	0.90	0.55	0.150	0.040	0.240	0.220	0.0692
FEB 11.81	FEB 10.81	0.11	0.19	0.025	0.030	0.060	0.180	0.0603
FEB 17.81	FEB 16.81	0.10	0.48	0.085	0.040	0.180	0.450	0.1096
FEB 18.81	FEB 17.81	*****	1.56	*****	*****	*****	*****	0.5012
FEB 19.81	FEB 18.81	*****	*****	*****	*****	*****	*****	0.1950
FEB 20.81	FEB 19.81	0.14	0.23	0.035	0.030	0.070	0.950	0.1778
FEB 23.81	FEB 22.81	0.06	0.09	0.010	0.050	0.050	0.220	0.0575
FEB 24.81	FEB 23.81	0.33	0.45	0.060	0.350	0.330	0.540	0.0229
FEB 25.81	FEB 24.81	*****	U 0.74	*****	*****	*****	1.020	U 0.0002
FEB 28.81	FEB 27.81	0.78	0.45	0.115	0.050	0.200	0.620	0.1122
MAR 5.81	MAR 4.81	*****	*****	*****	*****	*****	U 3.200	0.0617
MAR 6.81	MAR 5.81	0.39	0.82	0.055	0.050	0.190	U 3.000	0.2399
MAR 10.81	MAR 9.81	2.50	U 1.70	0.555	0.080	0.790	1.730	0.0603
MAR 11.81	MAR 10.81	*****	0.95	*****	*****	*****	U 3.200	0.0617
MAR 14.81	MAR 13.81	0.65	0.21	0.090	0.020	0.120	0.840	U 0.0001
MAR 17.81	MAR 16.81	*****	*****	*****	*****	*****	*****	U 0.0000
MAR 21.81	MAR 20.81	0.16	0.08	0.035	0.020	0.050	0.480	0.0275
MAR 27.81	MAR 26.81	1.92	0.57	0.365	0.080	0.270	1.500	0.0363
MAR 30.81	MAR 29.81	1.34	0.48	0.360	0.150	0.480	1.170	0.0479
MAR 31.81	MAR 30.81	0.48	0.14	0.110	0.120	0.080	0.680	0.0115
APR 1.81	MAR 31.81	*****	*****	*****	*****	*****	*****	U 0.0001
APR 9.81	APR 8.81	U 4.00	U 1.50	U 0.740	0.250	U 1.080	1.450	U 0.0001
APR 11.81	APR 10.81	U 1.47	0.28	0.245	0.140	0.250	0.550	U 0.0020
APR 12.81	APR 11.81	U 1.45	0.17	0.255	0.140	0.150	0.870	U 0.0016
APR 13.81	APR 12.81	0.30	0.08	0.050	0.050	0.060	0.314	0.0676
APR 14.81	APR 13.81	0.09	0.24	0.030	0.030	0.180	0.308	0.0933
APR 17.81	APR 16.81	*****	U 1.50	*****	*****	*****	U 6.100	U 0.0000
APR 18.81	APR 17.81	0.40	0.08	0.080	0.110	0.050	0.970	0.0093
APR 23.81	APR 22.81	0.42	0.16	0.075	0.260	0.130	1.890	U 0.0001
APR 24.81	APR 23.81	0.30	0.09	0.050	0.010	0.030	0.510	0.0501
APR 25.81	APR 24.81	*****	*****	*****	*****	*****	*****	U 0.0005
APR 28.81	APR 27.81	0.48	0.07	0.060	<T 0.010	0.020	0.720	0.0537
APR 29.81	APR 28.81	0.42	0.16	0.055	0.070	0.070	0.690	0.1023
DEC 1.81	NOV 30.81	0.14	<T 0.01	0.020	0.210	0.100	0.106	0.0178
DEC 2.81	DEC 1.81	0.22	0.14	0.025	0.030	0.030	0.400	0.0550
DEC 5.81	DEC 4.81	0.53	<T 0.01	0.090	<T 0.010	0.030	0.450	0.0022
DEC 8.81	DEC 7.81	*****	U 1.10	*****	*****	*****	U 2.100	U 0.0002
DEC 9.81	DEC 8.81	0.60	U 2.20	0.135	0.920	U 9.500	0.540	U 0.0003
DEC 10.81	DEC 9.81	0.13	<T 0.01	0.020	0.010	0.060	0.320	0.0010
DEC 14.81	DEC 13.81	*****	0.77	*****	*****	*****	*****	U 0.0008

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/SES #01 PAGE : 4

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
DEC 15.81	DEC 14.81	800	800	****	****	2	1.0	2	18074	2	1	103	CD	
DEC 16.81	DEC 15.81	800	800	****	****	2	1.6	2	18075	2	1	37	C	N
DEC 17.81	DEC 16.81	800	800	****	****	2	1.0	2	18076	2	1	101	C	
DEC 19.81	DEC 18.81	800	800	****	****	2	3.5	2	18077	2	1	51	C	C
DEC 22.81	DEC 21.81	800	800	****	****	2	14.2	2	18078	2	1	43		CN
DEC 23.81	DEC 22.81	800	800	****	****	1	24.0	2	18079	2	1	88		
JAN 1.82	DEC 31.81	800	800	****	****	1	8.0	2	18080	2	1	33		N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/SES #01 PAGE : 5

REMOVAL DATE	EXPOSURE DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
DEC 15.81	DEC 14.81		169.	*****	*****		3.97	******	2.95	1.33
DEC 16.81	DEC 15.81	U	98.	*****	*****		5.14	******	1.95	0.31
DEC 17.81	DEC 16.81		166.	*****	*****		4.48	******	0.80	0.82
DEC 19.81	DEC 18.81		295.	4.7	*****	U	5.92	0.0444	0.45	0.09
DEC 22.81	DEC 21.81	U	1007.	12.6	*****		4.50	0.0740	0.70	0.41
DEC 23.81	DEC 22.81		3488.	14.5	*****		4.40	0.0742	1.15	0.17
JAN 1.82	DEC 31.81	U	443.	45.0	*****		4.15	0.1476	3.30	1.08

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/SES #01 PAGE : 6

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
DEC 15.81	DEC 14.81	0.46	0.85	0.090	0.060	0.420	0.420	0.1072
DEC 16.81	DEC 15.81	0.30	0.16	0.045	0.050	0.070	0.630	0.0072
DEC 17.81	DEC 16.81	0.35	0.46	0.075	0.060	0.160	0.332	0.0331
DEC 19.81	DEC 18.81	0.21	0.12	0.015	0.030	0.060	0.204	U 0.0012
DEC 22.81	DEC 21.81	0.12	0.10	0.010	0.010	0.040	0.138	0.0316
DEC 23.81	DEC 22.81	0.04	0.09	0.005	0.010	0.070	0.034	0.0398
JAN 1.82	DEC 31.81	0.51	0.48	0.075	0.080	0.270	0.600	0.0708

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM #02

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JUL 15.80	JUL 14.80	830	830	2200	2230	1	****	*	139	2	1	****	C	
JUL 16.80	JUL 15.80	830	830	1400	1600	1	****	*	140	2	1	****		
JUL 17.80	JUL 16.80	830	830	****	****	1	****	*	141	2	1	****		
JUL 19.80	JUL 18.80	830	830	1500	1600	1	****	*	142	2	1	****	G	
JUL 21.80	JUL 19.80	830	900	****	****	1	2.6	1	143	2	1	88		Z
JUL 22.80	JUL 21.80	900	900	300	700	1	30.8	1	144	2	1	105	A	
JUL 23.80	JUL 22.80	830	830	900	2200	1	4.8	1	145	2	1	96		
JUL 27.80	JUL 26.80	815	815	600	730	1	6.5	1	146	2	1	****	G	
JUL 28.80	JUL 27.80	815	820	1500	820	1	9.4	1	147	2	1	99		
JUL 29.80	JUL 28.80	820	830	820	1500	1	40.4	1	148	2	1	100		J
JUL 30.80	JUL 29.80	830	830	1800	2000	1	****	*	149	2	1	****	C	
AUG 1.80	JUL 31.80	830	830	830	1130	1	6.0	1	150	2	1	98		
AUG 3.80	AUG 2.80	800	806	900	2200	1	20.0	1	151	2	1	100		
AUG 6.80	AUG 5.80	830	830	1600	1700	1	****	*	152	2	1	****		
AUG 11.80	AUG 10.80	830	830	1800	2000	1	1.8	1	153	2	1	67	C	
AUG 12.80	AUG 11.80	830	830	1400	1900	1	6.4	1	154	2	1	97	C	
AUG 15.80	AUG 14.80	830	915	1700	1830	1	1.2	1	155	2	1	59	C	
AUG 18.80	AUG 17.80	830	830	1100	2200	1	0.4	1	2169	2	1	****	FIE	
AUG 22.80	AUG 21.80	830	830	1630	1830	1	6.4	1	157	2	1	100		C
SEP 1.80	AUG 31.80	800	815	500	615	1	10.2	1	158	2	1	105		
SEP 2.80	SEP 1.80	815	800	1700	1830	1	29.9	1	159	2	1	112		
SEP 3.80	SEP 2.80	800	830	800	1130	1	4.8	1	160	2	1	90		C
SEP 13.80	SEP 12.80	800	950	500	940	1	23.0	1	161	2	1	99		J
SEP 14.80	SEP 13.80	950	815	****	****	1	14.4	1	162	2	1	101	B	C
SEP 17.80	SEP 16.80	830	830	****	600	1	5.4	1	163	2	1	99		
SEP 18.80	SEP 17.80	830	830	830	1100	1	2.6	1	164	2	1	88		
SEP 23.80	SEP 22.80	830	830	1930	2200	1	25.8	1	165	2	1	109	C	
SEP 26.80	SEP 25.80	830	830	830	2300	1	2.0	1	166	2	1	81	C	
OCT 2.80	OCT 1.80	830	830	2300	300	1	10.4	1	167	2	1	95		
OCT 6.80	OCT 3.80	830	830	****	****	1	8.1	1	168	2	1	72	C	Z
OCT 7.80	OCT 6.80	830	830	1800	2300	1	2.4	1	169	2	1	94		H
OCT 12.80	OCT 11.80	800	900	1000	1300	1	7.1	1	170	2	1	90		
OCT 13.80	OCT 12.80	900	830	****	****	1	1.1	1	171	2	1	39		N
OCT 15.80	OCT 14.80	830	830	1400	300	1	12.4	1	172	2	1	103		J
OCT 16.80	OCT 15.80	830	830	2300	830	1	1.6	1	173	2	1	110		
OCT 18.80	OCT 17.80	800	800	****	****	1	10.4	1	174	2	1	92		J
OCT 21.80	OCT 20.80	830	830	2300	700	1	4.2	1	175	2	1	120		N
OCT 25.80	OCT 24.80	830	900	200	900	1	8.3	1	176	2	1	99		
OCT 28.80	OCT 27.80	830	900	****	****	1	0.8	1	177	2	1	79		
NOV 5.80	NOV 4.80	830	830	830	1030	1	2.2	1	178	2	1	62		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AFROCHEM #02

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JUL 15.80	JUL 14.80	327.	47.5	*****	4.07	0.1250	5.35	0.69
JUL 16.80	JUL 15.80	172.	*****	*****	4.03	******	9.50	1.46
JUL 17.80	JUL 16.80	214.	25.9	*****	4.41	0.0688	2.85	0.47
JUL 19.80	JUL 18.80	451.	*****	*****	*****	******	*****	*****
JUL 21.80	JUL 19.80	147.	*****	*****	3.73	******	14.00	2.40
JUL 22.80	JUL 21.80	2079.	37.3	4.32	4.08	0.1186	3.25	0.55
JUL 23.80	JUL 22.80	297.	36.4	*****	4.24	0.0870	4.15	0.65
JUL 27.80	JUL 26.80	*****	*****	*****	3.49	******	> 10.00	> 2.00
JUL 28.80	JUL 27.80	599.	85.5	3.78	3.75	0.2256	7.80	0.87
JUL 29.80	JUL 28.80	2612.	20.5	U 5.30	4.42	0.0618	1.85	0.10
JUL 30.80	JUL 29.80	93.	*****	*****	3.93	******	6.05	1.48
AUG 1.80	JUL 31.80	378.	42.0	3.98	4.05	0.1160	4.40	0.36
AUG 3.80	AUG 2.80	1285.	*****	4.14	4.77	******	3.30	0.55
AUG 6.80	AUG 5.80	22.	*****	*****	4.22	******	*****	*****
AUG 11.80	AUG 10.80	78.	*****	*****	3.99	******	> 10.00	1.32
AUG 12.80	AUG 11.80	400.	34.7	4.05	4.18	0.1008	3.15	0.58
AUG 15.80	AUG 14.80	46.	*****	*****	3.85	******	*****	*****
AUG 18.80	AUG 17.80	*****	*****	*****	*****	******	*****	*****
AUG 22.80	AUG 21.80	411.	U 31.5	3.70	3.68	0.2710	8.60	1.09
SEP 1.80	AUG 31.80	691.	36.0	4.18	4.22	0.1254	3.40	0.46
SEP 2.80	SEP 1.80	2148.	27.5	4.22	4.31	0.0988	2.90	0.32
SEP 3.80	SEP 2.80	232.	30.4	*****	4.08	0.1012	2.95	0.44
SEP 13.80	SEP 12.80	1472.	75.0	U 4.12	3.74	0.1972	8.20	0.84
SEP 14.80	SEP 13.80	937.	77.0	3.79	3.66	0.2060	8.15	0.80
SEP 17.80	SEP 16.80	345.	52.0	*****	3.92	0.1532	4.70	0.61
SEP 18.80	SEP 17.80	147.	*****	*****	4.28	0.0802	*****	*****
SEP 23.80	SEP 22.80	1818.	17.7	4.64	4.52	0.0550	1.90	0.23
SEP 26.80	SEP 25.80	105.	*****	*****	3.99	0.1300	*****	1.38
OCT 2.80	OCT 1.80	635.	21.0	4.68	4.63	0.0654	3.10	0.39
OCT 6.80	OCT 3.80	379.	18.0	4.65	4.70	0.0508	2.65	0.51
OCT 7.80	OCT 6.80	145.	*****	*****	4.72	0.0638	3.80	1.05
OCT 12.80	OCT 11.80	412.	11.4	5.40	6.06	0.0404	2.15	0.16
OCT 13.80	OCT 12.80	U 28.	*****	*****	4.80	******	1.25	0.04
OCT 15.80	OCT 14.80	824.	13.2	U 4.99	4.50	0.0756	1.20	0.22
OCT 16.80	OCT 15.80	113.	*****	*****	3.65	0.2550	7.45	*****
OCT 18.80	OCT 17.80	614.	27.0	U 5.56	4.24	0.0872	2.65	0.37
OCT 21.80	OCT 20.80	325.	13.0	*****	4.58	0.0540	1.30	0.21
OCT 25.80	OCT 24.80	531.	24.7	4.30	4.20	0.0858	1.90	0.48
OCT 28.80	OCT 27.80	41.	*****	*****	4.11	******	1.70	1.07
NOV 5.80	NOV 4.80	88.	*****	*****	4.16	******	5.40	1.37

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM #02 PAGE : 3

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JUL 15,80	JUL 14,80	0.58	0.24	*****	0.030	0.070	0.500	0.0851
JUL 16,80	JUL 15,80	1.75	0.51	0.185	0.110	0.170	1.250	0.0933
JUL 17,80	JUL 16,80	0.46	0.44	*****	0.130	0.260	0.470	0.0389
JUL 19,80	JUL 18,80	*****	*****	*****	*****	*****	*****	******
JUL 21,80	JUL 19,80	*****	0.81	*****	*****	*****	0.860	0.1862
JUL 22,80	JUL 21,80	0.09	0.13	0.015	0.020	0.010	0.298	0.0832
JUL 23,80	JUL 22,80	0.48	0.44	0.070	0.080	0.180	0.680	0.0575
JUL 27,80	JUL 26,80	*****	0.67	*****	*****	*****	*****	0.3236
JUL 28,80	JUL 27,80	0.11	0.16	0.025	0.040	0.080	0.312	0.1778
JUL 29,80	JUL 28,80	0.03	0.04	0.005	0.070	0.030	0.048	0.0380
JUL 30,80	JUL 29,80	*****	0.40	*****	*****	*****	*****	0.1175
AUG 1,80	JUL 31,80	0.20	0.09	0.020	0.010	0.020	0.178	0.0891
AUG 3,80	AUG 2,80	*****	U 2.80	*****	*****	*****	0.288	0.0170
AUG 6,80	AUG 5,80	*****	*****	*****	*****	*****	*****	0.0603
AUG 11,80	AUG 10,80	*****	0.70	*****	*****	*****	*****	0.1023
AUG 12,80	AUG 11,80	0.23	0.22	0.035	0.020	0.060	0.322	0.0661
AUG 15,80	AUG 14,80	*****	*****	*****	*****	*****	*****	0.1413
AUG 18,80	AUG 17,80	*****	*****	*****	*****	*****	*****	******
AUG 22,80	AUG 21,80	0.62	0.34	0.100	0.010	0.080	0.198	0.2089
SEP 1,80	AUG 31,80	< 0.20	0.18	< 0.050	< 0.050	0.300	0.284	0.0603
SEP 2,80	SEP 1,80	< 0.20	0.12	< 0.050	< 0.050	0.300	0.332	0.0490
SEP 3,80	SEP 2,80	0.24	0.13	0.030	0.020	0.020	0.170	0.0832
SEP 13,80	SEP 12,80	0.40	0.18	0.060	0.020	0.020	0.520	0.1820
SEP 14,80	SEP 13,80	0.24	0.20	0.030	0.020	0.020	0.480	0.2188
SEP 17,80	SEP 16,80	0.17	0.13	0.015	< 0.010	< 0.010	0.292	0.1802
SEP 18,80	SEP 17,80	0.13	*****	0.025	< 0.010	0.010	*****	0.0525
SEP 23,80	SEP 22,80	0.20	0.09	0.050	< 0.010	0.050	0.304	0.0302
SEP 26,80	SEP 25,80	*****	0.31	*****	*****	*****	0.720	0.1023
OCT 2,80	OCT 1,80	0.62	0.46	0.105	0.280	0.320	0.460	0.0234
OCT 6,80	OCT 3,80	0.76	0.06	0.125	0.050	0.040	0.390	0.0200
OCT 7,80	OCT 6,80	1.48	0.20	0.235	0.160	0.110	1.400	0.0191
OCT 12,80	OCT 11,80	0.55	0.14	0.115	0.240	0.170	0.480	0.0009
OCT 13,80	OCT 12,80	*****	0.12	*****	*****	*****	*****	0.0158
OCT 15,80	OCT 14,80	0.13	0.01	0.020	0.020	0.020	0.150	0.0316
OCT 16,80	OCT 15,80	1.25	0.43	0.170	0.170	0.130	*****	0.2239
OCT 18,80	OCT 17,80	0.25	0.31	0.055	0.030	0.180	0.198	0.0575
OCT 21,80	OCT 20,80	0.16	0.02	0.030	0.020	< 0.010	0.166	0.0263
OCT 25,80	OCT 24,80	0.15	0.10	0.015	0.030	0.030	0.102	0.0631
OCT 28,80	OCT 27,80	*****	0.77	*****	*****	*****	*****	0.0776
NOV 5,80	NOV 4,80	*****	0.51	*****	*****	*****	0.700	0.0692

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM #02

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
NOV 8,80	NOV 7,80	800	830	2200	2400	1	4.3	1	179	2	1	97		
NOV 9,80	NOV 8,80	830	830	****	****	1	0.8	1	180	2	1	35		N
NOV 18,80	NOV 17,80	830	830	****	****	1	****	*	181	2	1	****		
NOV 25,80	NOV 24,80	830	830	1000	830	3	4.0	1	182	2	1	56		
NOV 28,80	NOV 27,80	830	830	830	830	3	4.0	1	183	2	1	53		
DEC 2,80	NOV 28,80	830	830	****	****	3	22.8	1	184	2	1	96		CZ
DEC 3,80	DEC 2,80	830	830	830	830	3	5.6	1	185	2	1	44		N
DEC 8,80	DEC 7,80	830	830	830	2200	1	9.4	1	186	2	1	83		C
DEC 9,80	DEC 8,80	830	830	1200	1800	1	11.0	1	187	2	1	94		C
DEC 10,80	DEC 9,80	830	830	1430	1900	2	2.6	1	188	2	1	39	C	N
DEC 11,80	DEC 10,80	830	830	1500	1900	2	0.6	1	189	2	1	41	C	N
DEC 12,80	DEC 11,80	830	830	****	830	2	0.8	1	190	2	1	93		
DEC 15,80	DEC 14,80	830	830	930	1200	2	0.6	1	2170	2	1	****	E	X
DEC 19,80	DEC 18,80	830	830	****	****	2	****	*	192	2	1	****		
DEC 24,80	DEC 22,80	830	830	****	****	2	5.2	1	193	2	1	64		Z
DEC 25,80	DEC 24,80	800	900	****	****	2	****	*	194	2	1	****		
DEC 29,80	DEC 28,80	830	830	100	830	3	5.2	1	195	2	1	43	C	N
DEC 30,80	DEC 29,80	830	830	830	1600	3	1.6	1	196	2	1	133		N
JAN 5,81	DEC 31,80	830	830	****	****	2	5.2	1	197	2	1	39		ZN
JAN 7,81	JAN 6,81	830	830	1400	100	2	5.4	1	198	2	1	34		N
JAN 10,81	JAN 9,81	830	830	****	****	2	0.2	1	199	2	1	7		N
JAN 16,81	JAN 15,81	830	830	****	****	2	1.6	1	200	2	1	28		NL
JAN 17,81	JAN 16,81	830	830	1000	1800	2	0.8	1	201	2	1	17		N
APR 9,81	APR 8,81	830	800	2000	800	1	1.4	2	1689	2	1	143	CD	N
APR 11,81	APR 10,81	800	800	****	****	1	5.4	2	1691	2	1	127		N
APR 12,81	APR 11,81	800	800	****	****	1	****	*	1692	2	1	****		
APR 13,81	APR 12,81	800	830	1030	1800	1	1.1	2	1695	2	1	153	C	N
APR 14,81	APR 13,81	830	830	****	****	1	31.4	2	2315	2	1	106	CD	
MAY 10,81	MAY 9,81	800	900	****	****	1	4.0	1	17002	2	1	89		
MAY 11,81	MAY 10,81	830	830	830	2000	1	9.8	1	17003	2	1	96	C	
MAY 12,81	MAY 11,81	830	830	1800	2200	1	7.4	1	17006	2	1	71	C	
MAY 15,81	MAY 14,81	830	830	1200	500	1	6.2	1	17008	2	1	64	DC	
MAY 16,81	MAY 15,81	800	900	****	****	1	2.1	1	17010	2	1	46		N
MAY 25,81	MAY 24,81	830	900	600	900	1	4.2	1	17014	2	1	82	C	
MAY 26,81	MAY 25,81	900	930	****	****	1	1.2	1	17016	2	1	109	D	
MAY 28,81	MAY 27,81	830	830	****	****	1	5.2	1	17021	2	1	73	C	
MAY 30,81	MAY 29,81	800	830	600	830	1	3.8	1	17023	2	1	92		M
JUN 3,81	JUN 2,81	830	830	****	****	1	1.1	1	17026	2	1	95		
JUN 4,81	JUN 3,81	830	900	2100	2200	1	18.3	1	17028	2	1	103	AD	
JUN 9,81	JUN 8,81	830	830	1900	2300	1	3.8	1	17030	2	1	86	C	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM #02 PAGE : 5

REMOVAL DATE	EXPOSURE DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
NOV 8,80	NOV 7,80		269.	28.4	*****		4.76	0.0652	4.35	1.03
NOV 9,80	NOV 8,80	U	18.	*****	*****		*****	******	*****	*****
NOV 18,80	NOV 17,80		150.	*****	*****		4.20	******	3.65	0.89
NOV 25,80	NOV 24,80		146.	*****	*****		4.31	******	2.90	0.62
NOV 28,80	NOV 27,80		136.	*****	*****		3.96	******	3.15	1.16
DEC 2,80	NOV 28,80		1410.	38.4	3.94		3.96	0.1374	2.80	0.73
DEC 3,80	DEC 2,80	U	160.	*****	*****		4.76	******	1.65	0.37
DEC 8,80	DEC 7,80		505.	30.5	4.12		4.10	0.1082	2.55	0.63
DEC 9,80	DEC 8,80		667.	20.1	4.28		4.25	0.0946	2.05	0.21
DEC 10,80	DEC 9,80	U	65.	*****	*****		5.57	******	0.35	0.17
DEC 11,80	DEC 10,80	U	16.	*****	*****		5.51	******	*****	*****
DEC 12,80	DEC 11,80		48.	*****	*****		4.96	******	*****	*****
DEC 15,80	DEC 14,80		*****	*****	*****		*****	******	*****	*****
DEC 19,80	DEC 18,80		31.	*****	*****	U	6.67	******	*****	*****
DEC 24,80	DEC 22,80		214.	19.0	*****		4.56	******	0.90	0.82
DEC 25,80	DEC 24,80		29.	*****	*****	U	6.53	******	*****	*****
DEC 29,80	DEC 28,80	U	145.	8.2	*****		4.76	******	0.90	0.08
DEC 30,80	DEC 29,80		137.	12.3	*****		4.89	******	1.50	0.22
JAN 5,81	DEC 31,80	U	133.	17.2	*****		4.50	******	0.55	0.50
JAN 7,81	JAN 6,81	U	119.	19.5	*****		4.44	******	0.70	0.56
JAN 10,81	JAN 9,81	U	1.	*****	*****		*****	******	*****	*****
JAN 16,81	JAN 15,81	U	29.	*****	*****		3.85	******	3.05	2.20
JAN 17,81	JAN 16,81	U	9.	*****	*****		*****	******	*****	*****
APR 9,81	APR 8,81		129.	*****	*****	U	5.70	******	7.55	1.10
APR 11,81	APR 10,81		443.	22.6	4.35		4.38	0.0706	2.45	0.37
APR 12,81	APR 11,81		62.	*****	*****		5.66	******	*****	*****
APR 13,81	APR 12,81		108.	*****	*****		4.42	******	6.30	0.59
APR 14,81	APR 13,81		2153.	42.0	4.06		4.03	0.1240	3.85	0.57
MAY 10,81	MAY 9,81		230.	*****	*****		3.65	******	12.50	1.46
MAY 11,81	MAY 10,81		605.	40.5	3.98		4.03	0.1296	4.70	0.61
MAY 12,81	MAY 11,81		341.	18.8	*****		4.46	0.0622	2.00	0.22
MAY 15,81	MAY 14,81		256.	30.2	*****		4.46	0.0654	4.30	0.69
MAY 16,81	MAY 15,81	U	63.	*****	*****		3.68	******	12.10	2.00
MAY 25,81	MAY 24,81		222.	*****	*****		4.42	******	2.40	0.28
MAY 26,81	MAY 25,81		84.	*****	*****		4.09	******	5.20	0.61
MAY 28,81	MAY 27,81		245.	48.4	*****		4.06	0.1264	4.30	1.24
MAY 30,81	MAY 29,81		226.	*****	*****		4.65	******	2.10	0.16
JUN 3,81	JUN 2,81		67.	*****	*****		3.94	******	4.65	1.04
JUN 4,81	JUN 3,81		1213.	34.1	*****		4.18	0.0940	3.65	0.51
JUN 9,81	JUN 8,81		210.	*****	*****		4.37	******	3.25	0.40

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM #02 PAGE : 6

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
NOV 8,80	NOV 7,80	1.27	0.20	0.160	0.100	0.040	1.110	0.0174
NOV 9,80	NOV 8,80	*****	*****	*****	*****	*****	*****	******
NOV 18,80	NOV 17,80	0.99	0.20	0.140	0.070	0.070	0.380	0.0631
NOV 25,80	NOV 24,80	0.60	0.20	0.080	0.160	0.130	0.370	0.0490
NOV 28,80	NOV 27,80	0.50	0.27	0.080	0.050	0.070	0.288	0.1096
DEC 2,80	NOV 28,80	0.15	0.17	0.025	0.030	0.080	0.410	0.1096
DEC 3,80	DEC 2,80	0.47	0.10	0.080	0.040	0.060	0.268	0.0174
DEC 8,80	DEC 7,80	0.20	0.18	0.030	0.030	0.100	0.450	0.0794
DEC 9,80	DEC 8,80	0.05	0.21	0.025	0.010	0.090	0.238	0.0562
DEC 10,80	DEC 9,80	0.28	0.11	0.030	0.020	0.030	0.054	0.0027
DEC 11,80	DEC 10,80	*****	*****	*****	*****	*****	*****	0.0031
DEC 12,80	DEC 11,80	*****	*****	*****	*****	*****	*****	0.0110
DEC 15,80	DEC 14,80	*****	*****	*****	*****	*****	*****	******
DEC 19,80	DEC 18,80	*****	*****	*****	*****	*****	*****	U 0.0002
DEC 24,80	DEC 22,80	0.89	0.46	0.135	0.050	0.140	0.086	0.0275
DEC 25,80	DEC 24,80	*****	*****	*****	*****	*****	*****	U 0.0003
DEC 29,80	DEC 28,80	0.17	0.08	0.020	0.020	0.070	0.006	0.0174
DEC 30,80	DEC 29,80	0.51	0.32	0.060	0.290	0.230	0.132	0.0129
JAN 5,81	DEC 31,80	0.22	0.25	0.025	0.020	0.090	0.058	0.0316
JAN 7,81	JAN 6,81	0.26	0.19	0.025	0.010	0.080	0.036	0.0363
JAN 10,81	JAN 9,81	*****	*****	*****	*****	*****	*****	******
JAN 16,81	JAN 15,81	*****	0.85	*****	*****	*****	*****	0.1413
JAN 17,81	JAN 16,81	*****	*****	*****	*****	*****	*****	******
APR 9,81	APR 8,81	*****	0.88	*****	*****	*****	1.050	U 0.0020
APR 11,81	APR 10,81	0.22	0.14	0.040	0.040	0.090	0.292	0.0417
APR 12,81	APR 11,81	*****	*****	*****	*****	*****	0.500	0.0022
APR 13,81	APR 12,81	*****	0.36	*****	*****	*****	0.620	0.0380
APR 14,81	APR 13,81	0.10	0.27	0.025	0.040	0.170	0.346	0.0933
MAY 10,81	MAY 9,81	1.24	0.39	0.205	0.100	0.130	0.620	0.2239
MAY 11,81	MAY 10,81	0.26	0.18	0.045	0.030	0.100	0.410	0.0933
MAY 12,81	MAY 11,81	0.08	0.25	<T 0.005	0.020	0.320	0.282	0.0347
MAY 15,81	MAY 14,81	*****	0.36	*****	*****	*****	0.540	0.0347
MAY 16,81	MAY 15,81	*****	U 1.70	*****	*****	*****	U 1.410	0.2089
MAY 25,81	MAY 24,81	0.14	0.26	0.020	0.050	0.340	0.286	0.0380
MAY 26,81	MAY 25,81	*****	0.20	*****	*****	*****	*****	0.0813
MAY 28,81	MAY 27,81	0.38	0.34	0.045	0.040	0.270	0.860	0.0871
MAY 30,81	MAY 29,81	0.21	0.25	0.020	0.170	0.190	U 0.0	0.0224
JUN 3,81	JUN 2,81	*****	0.34	*****	*****	*****	*****	0.1148
JUN 4,81	JUN 3,81	0.18	0.18	0.035	0.020	0.070	0.650	0.0661
JUN 9,81	JUN 8,81	0.43	0.16	0.085	0.030	0.050	0.390	0.0427

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM #02

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JUN 11,81	JUN 10,81	830	830	800	1230	1	0.8	1	17032	2	1	27	CE	N
JUN 14,81	JUN 13,81	830	900	1700	1900	1	13.2	1	17034	2	1	101		
JUN 15,81	JUN 14,81	830	830	1200	1700	1	14.4	1	17036	2	1	109	C	
JUN 17,81	JUN 16,81	830	830	1500	1900	1	4.1	1	17038	2	1	98	C	
JUN 20,81	JUN 19,81	800	800	1800	1900	1	2.1	1	17040	2	1	84		
JUN 21,81	JUN 20,81	830	830	230	400	1	4.1	1	17042	2	1	95		
JUN 22,81	JUN 21,81	830	830	2330	600	1	18.4	1	17044	2	1	103	C	
JUN 25,81	JUN 24,81	830	830	****	****	1	1.0	1	17047	2	1	****	E	
JUL 1,81	JUN 30,81	830	830	400	700	1	22.9	1	17049	2	1	107	A	
JUL 5,81	JUL 4,81	800	800	1400	1500	1	4.0	1	17051	2	1	63		
JUL 6,81	JUL 5,81	830	830	1400	1600	1	18.8	1	17053	2	1	101	C	
JUL 10,81	JUL 9,81	830	830	1330	1430	1	5.2	1	17059	2	1	92	C	
JUL 18,81	JUL 17,81	800	800	2230	2330	1	6.7	1	17062	2	1	97	A	
JUL 20,81	JUL 19,81	830	830	2000	830	1	11.8	1	17065	2	1	89	C	
JUL 21,81	JUL 20,81	830	830	830	1200	1	0.8	1	17068	2	1	48	C	N
JUL 27,81	JUL 26,81	830	830	1300	1700	1	1.2	1	17071	2	1	45	C	N
JUL 28,81	JUL 27,81	800	900	****	****	1	18.2	1	17072	2	1	101		
JUL 29,81	JUL 28,81	830	830	830	1800	1	18.2	1	17073	2	1	34	C	N
AUG 4,81	AUG 3,81	830	830	1800	2000	1	16.6	1	17074	2	1	96	C	
AUG 5,81	AUG 4,81	830	830	1800	2000	1	27.4	1	17079	2	1	112	C	
AUG 8,81	AUG 7,81	800	830	900	1100	1	9.8	1	17087	2	1	94	A	
AUG 9,81	AUG 8,81	830	830	1100	1200	1	3.0	1	17088	2	1	84		
AUG 12,81	AUG 11,81	830	830	1900	2000	1	12.2	1	17089	2	1	93	BD	
AUG 14,81	AUG 13,81	800	830	2030	2100	1	6.0	1	17090	2	1	93	J	
AUG 15,81	AUG 14,81	830	830	****	****	1	16.4	1	17091	2	1	105		
AUG 16,81	AUG 15,81	830	830	1100	1200	1	3.2	1	17092	2	1	79	A	
SEP 9,81	SEP 8,81	830	830	****	****	1	3.0	1	17093	2	1	40	C	N
SEP 17,81	SEP 16,81	800	900	1700	1900	1	22.8	1	17095	2	1	105	A	C
SEP 18,81	SEP 17,81	800	900	1500	1600	1	7.8	1	17096	2	1	91		
SEP 22,81	SEP 21,81	830	830	1200	2400	1	23.4	1	17097	2	1	97		
SEP 26,81	SEP 25,81	800	800	****	****	1	2.7	1	17101	2	1	92	C	Y
OCT 1,81	SEP 30,81	830	830	2100	1000	1	53.0	1	17102	2	1	99	C	
OCT 2,81	OCT 1,81	830	830	1000	830	1	4.4	1	17103	2	1	90	C	
OCT 3,81	OCT 2,81	830	830	****	****	3	3.1	1	17104	2	1	81	D	
OCT 5,81	OCT 4,81	830	830	****	****	1	0.6	1	17105	2	1	****	E	
OCT 6,81	OCT 5,81	830	830	****	****	1	5.0	1	17106	2	1	94	C	
OCT 7,81	OCT 6,81	830	830	****	****	1	3.2	1	17113	2	1	79	BC	
OCT 8,81	OCT 7,81	830	830	2200	430	1	3.6	1	17114	2	1	76	C	M
OCT 18,81	OCT 17,81	800	2000	****	****	1	18.5	1	17115	2	1	97		
OCT 19,81	OCT 18,81	2000	830	2000	830	1	3.4	1	17116	2	1	94	C	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM #02

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JUN 11,81	JUN 10,81	U 14.	*****	*****	*****	******	*****	*****
JUN 14,81	JUN 13,81	855.	*****	*****	4.02	******	4.70	0.57
JUN 15,81	JUN 14,81	1010.	*****	*****	4.80	******	1.30	0.12
JUN 17,81	JUN 16,81	259.	38.2	*****	4.22	0.0958	5.05	0.80
JUN 20,81	JUN 19,81	114.	*****	*****	4.17	******	8.60	1.44
JUN 21,81	JUN 20,81	250.	*****	*****	3.73	******	10.70	1.28
JUN 22,81	JUN 21,81	1220.	24.7	*****	4.30	0.0766	2.10	0.34
JUN 25,81	JUN 24,81	*****	*****	*****	*****	******	*****	*****
JUL 1,81	JUN 30,81	1578.	26.1	*****	4.29	0.0770	2.85	0.25
JUL 5,81	JUL 4,81	162.	*****	*****	3.75	******	8.55	1.12
JUL 6,81	JUL 5,81	1229.	36.0	*****	4.18	0.0974	4.65	0.43
JUL 10,81	JUL 9,81	309.	31.0	*****	U 6.94	0.0308	5.45	0.96
JUL 18,81	JUL 17,81	420.	64.0	*****	3.88	0.1692	6.45	1.17
JUL 20,81	JUL 19,81	677.	59.0	*****	3.93	0.1520	6.35	0.59
JUL 21,81	JUL 20,81	U 25.	*****	*****	3.48	******	*****	*****
JUL 27,81	JUL 26,81	U 35.	*****	*****	3.23	******	*****	*****
JUL 28,81	JUL 27,81	1182.	24.0	*****	4.37	0.0710	2.20	0.25
JUL 29,81	JUL 28,81	U 405.	85.5	*****	3.73	0.2192	7.90	1.01
AUG 4,81	AUG 3,81	1027.	104.0	*****	3.72	0.2442	12.00	1.00
AUG 5,81	AUG 4,81	1983.	20.1	*****	4.48	0.0638	2.65	0.24
AUG 8,81	AUG 7,81	595.	42.0	*****	4.12	0.1090	3.80	0.58
AUG 9,81	AUG 8,81	163.	*****	*****	3.79	******	7.35	1.01
AUG 12,81	AUG 11,81	730.	51.0	*****	4.08	0.1270	5.00	0.82
AUG 14,81	AUG 13,81	360.	14.5	*****	6.03	******	2.25	0.42
AUG 15,81	AUG 14,81	1111.	54.0	*****	3.98	0.1458	4.75	0.65
AUG 16,81	AUG 15,81	163.	*****	*****	3.76	******	10.20	1.08
SEP 9,81	SEP 8,81	U 78.	*****	*****	U 7.12	******	5.15	0.46
SEP 17,81	SEP 16,81	1536.	13.0	4.11	4.88	0.0396	1.50	0.20
SEP 18,81	SEP 17,81	459.	29.8	3.97	4.19	0.0952	2.25	0.45
SEP 22,81	SEP 21,81	1463.	50.0	U 4.65	4.12	0.1166	5.30	1.01
SEP 26,81	SEP 25,81	160.	*****	*****	5.84	******	9.85	1.69
OCT 1,81	SEP 30,81	3386.	21.5	4.22	4.34	0.0748	2.15	0.21
OCT 2,81	OCT 1,81	256.	*****	*****	4.73	0.0464	1.55	0.13
OCT 3,81	OCT 2,81	162.	*****	*****	U 6.18	******	0.85	0.03
OCT 5,81	OCT 4,81	*****	*****	*****	*****	******	*****	*****
OCT 6,81	OCT 5,81	302.	*****	*****	4.18	0.0976	3.10	0.78
OCT 7,81	OCT 6,81	163.	*****	*****	5.04	******	2.05	0.10
OCT 8,81	OCT 7,81	176.	*****	*****	U 6.62	******	1.30	1.40
OCT 18,81	OCT 17,81	1161.	25.5	4.27	4.25	0.0784	2.45	0.41
OCT 19,81	OCT 18,81	207.	*****	*****	5.61	0.0318	1.15	0.13

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM #02

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JUN 11.81	JUN 10.81	*****	*****	*****	*****	*****	*****	******
JUN 14.81	JUN 13.81	0.32	0.26	0.060	0.040	0.120	0.380	0.0955
JUN 15.81	JUN 14.81	0.10	0.16	0.010	0.020	0.120	0.152	0.0158
JUN 17.81	JUN 16.81	0.66	0.31	0.130	0.060	0.120	0.970	0.0603
JUN 20.81	JUN 19.81	1.73	0.55	0.295	0.180	0.450	1.840	0.0676
JUN 21.81	JUN 20.81	0.46	0.18	0.100	0.070	0.050	1.410	0.1862
JUN 22.81	JUN 21.81	0.12	0.06	0.010	<T 0.010	0.020	0.242	0.0501
JUN 25.81	JUN 24.81	*****	*****	*****	*****	*****	*****	******
JUL 1.81	JUN 30.81	0.09	0.09	0.025	0.050	0.090	0.362	0.0513
JUL 5.81	JUL 4.81	0.72	0.21	0.110	0.040	0.040	0.670	0.1778
JUL 6.81	JUL 5.81	0.17	0.08	0.040	0.020	0.020	0.810	0.0661
JUL 10.81	JUL 9.81	U 1.89	0.34	U 0.365	0.090	0.140	1.200	U 0.0001
JUL 18.81	JUL 17.81	0.96	0.45	0.165	0.100	0.210	0.540	0.1318
JUL 20.81	JUL 19.81	0.14	0.11	0.025	0.020	0.010	0.640	0.1175
JUL 21.81	JUL 20.81	*****	*****	*****	*****	*****	*****	0.3311
JUL 27.81	JUL 26.81	*****	*****	*****	*****	*****	*****	0.5888
JUL 28.81	JUL 27.81	0.10	0.12	0.015	0.050	0.070	0.144	0.0427
JUL 29.81	JUL 28.81	0.21	0.28	0.035	0.030	0.040	0.750	0.1862
AUG 4.81	AUG 3.81	0.49	0.30	0.085	0.050	0.100	1.170	0.1905
AUG 5.81	AUG 4.81	0.23	0.11	0.050	0.040	0.050	0.400	0.0331
AUG 8.81	AUG 7.81	0.24	0.30	0.045	0.040	0.180	0.268	0.0759
AUG 9.81	AUG 8.81	0.38	0.24	0.070	0.030	0.030	0.520	0.1622
AUG 12.81	AUG 11.81	0.43	0.22	0.090	0.040	0.020	0.720	0.0832
AUG 14.81	AUG 13.81	0.74	0.20	0.125	0.130	0.080	0.640	0.0009
AUG 15.81	AUG 14.81	0.23	0.14	0.030	0.020	0.020	0.258	0.1047
AUG 16.81	AUG 15.81	0.23	0.23	0.030	0.050	0.030	1.270	0.1738
SEP 9.81	SEP 8.81	*****	0.68	*****	*****	*****	0.800	U 0.0001
SEP 17.81	SEP 16.81	0.37	0.07	0.070	0.050	0.050	0.170	0.0132
SEP 18.81	SEP 17.81	0.08	0.08	0.025	0.020	0.010	0.230	0.0646
SEP 22.81	SEP 21.81	0.88	0.18	0.130	0.060	0.040	0.800	0.0759
SEP 26.81	SEP 25.81	*****	0.47	*****	*****	*****	0.730	0.0014
OCT 1.81	SEP 30.81	0.14	0.03	0.015	0.010	0.020	0.144	0.0457
OCT 2.81	OCT 1.81	0.14	0.12	0.020	0.030	0.080	0.164	0.0186
OCT 3.81	OCT 2.81	0.38	0.16	0.055	0.020	0.080	0.200	U 0.0007
OCT 5.81	OCT 4.81	*****	*****	*****	*****	*****	*****	******
OCT 6.81	OCT 5.81	0.32	0.29	0.045	0.100	0.200	0.480	0.0661
OCT 7.81	OCT 6.81	0.54	0.05	0.070	0.060	0.110	0.150	0.0091
OCT 8.81	OCT 7.81	0.64	1.16	0.120	0.590	0.730	0.304	U 0.0002
OCT 18.81	OCT 17.81	0.36	0.18	0.050	0.080	0.070	0.264	0.0562
OCT 19.81	OCT 18.81	0.22	0.21	0.040	0.150	0.140	0.318	0.0025

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM #02

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
OCT 22,81	OCT 21,81	730	830	745	500	1	8.8	1	17121	2	1	94	C	
OCT 23,81	OCT 22,81	830	830	1045	130	1	16.8	1	17122	2	1	101	C	
OCT 27,81	OCT 26,81	830	930	****	****	1	9.2	1	17123	2	1	93		
OCT 28,81	OCT 27,81	930	830	****	****	1	2.6	1	17128	2	1	79	C	
NOV 6,81	NOV 5,81	800	830	840	830	1	12.6	1	17129	2	1	94	C	
NOV 7,81	NOV 6,81	830	900	830	1200	3	6.0	1	17130	2	1	84	C	C
NOV 17,81	NOV 16,81	830	830	1330	1900	1	0.4	1	17131	2	1	11	E	N
NOV 19,81	NOV 18,81	830	900	1030	900	1	1.2	1	17132	2	1	31	C	N
NOV 20,81	NOV 19,81	900	815	1130	1500	1	14.4	1	17133	2	1	95	C	
NOV 21,81	NOV 20,81	800	800	****	****	3	6.0	1	17140	2	1	100		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM #02

REMOVAL DATE	EXPOSURE DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD		PH LAB	TOTAL H+ TO PH8.3 UG/L	SULPHATE MG/L	NITRATE AS N MG/L
OCT 22.81	OCT 21.81		533.	57.5	3.97		3.96	0.1404	4.60	1.34
OCT 23.81	OCT 22.81		1097.	16.4	4.50		4.50	0.0582	1.10	0.18
OCT 27.81	OCT 26.81		552.	41.9	4.06		4.04	0.1220	3.30	0.60
OCT 28.81	OCT 27.81		132.	*****	*****		4.30	******	3.55	0.45
NOV 6.81	NOV 5.81		766.	19.0	4.61		4.52	0.0760	1.80	0.50
NOV 7.81	NOV 6.81		326.	3.9	*****		5.52	0.0266	0.50	0.02
NOV 17.81	NOV 16.81	U	3.	*****	*****		*****	******	*****	*****
NOV 19.81	NOV 18.81	U	24.	*****	*****	U	7.59	******	*****	*****
NOV 20.81	NOV 19.81		878.	39.2	4.13		4.13	0.1216	3.05	0.78
NOV 21.81	NOV 20.81		385.	7.5	4.88		5.21	0.0366	0.65	0.19

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM #02

REMOVAL DATE	EXPOSURE DATE		CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
OCT 22,81	OCT 21,81		0.68	0.22	0.095	0.070	0.060	0.890	0.1096
OCT 23,81	OCT 22,81		0.06	0.06	0.020	0.010	0.020	0.092	0.0316
OCT 27,81	OCT 26,81		0.20	0.22	0.045	0.030	0.050	0.270	0.0912
OCT 28,81	OCT 27,81	U	0.31	0.14	0.040	0.040	0.090	U 0.690	0.0501
NOV 6,81	NOV 5,81		0.44	0.15	0.075	0.030	0.050	0.360	0.0302
NOV 7,81	NOV 6,81		0.11	0,02	0.015	0.020	0.040	0.096	0.0030
NOV 17,81	NOV 16,81		*****	*****	*****	*****	*****	*****	******
NOV 19,81	NOV 18,81		*****	*****	*****	*****	*****	*****	U 0.0000
NOV 20,81	NOV 19,81		0.24	0.12	0.025	0.030	0.040	0.540	0.0741
NOV 21,81	NOV 20,81		0.10	0.22	0.010	0.260	0.150	0.160	0.0062

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/SES #02 PAGE : 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 28.81	JAN 27.81	830	830	1000	1800	2	1.6	1	202	2	1	95		
JAN 29.81	JAN 28.81	830	830	1900	200	2	****	*	203	2	1	****		CL
JAN 30.81	JAN 29.81	830	830	****	****	2	****	*	204	2	1	****	C	
FEB 1.81	JAN 31.81	800	830	400	830	1	****	*	205	2	1	****		J
FEB 2.81	FEB 1.81	830	830	830	2400	3	12.6	1	206	2	1	52		
FEB 3.81	FEB 2.81	830	830	1300	1400	2	****	*	207	2	1	****		L
FEB 6.81	FEB 5.81	830	830	2300	830	2	2.0	1	208	2	1	98	C	L
FEB 11.81	FEB 10.81	830	830	900	830	3	****	*	209	2	1	****		
FEB 12.81	FEB 11.81	830	830	830	2000	2	****	*	210	2	1	****	C	
FEB 17.81	FEB 16.81	830	830	930	1800	1	****	*	1651	2	1	****	C	
FEB 19.81	FEB 18.81	830	830	830	830	1	****	*	1653	2	1	****	C	
FEB 20.81	FEB 19.81	830	830	830	600	1	****	*	1655	2	1	****		
FEB 23.81	FEB 22.81	830	830	2030	830	1	17.8	2	1656	2	1	102	C	
FEB 25.81	FEB 24.81	830	830	1830	****	3	1.2	2	1658	2	1	154	C	N
FEB 28.81	FEB 27.81	800	900	****	****	1	****	*	1660	2	1	****	C	
MAR 3.81	MAR 2.81	830	830	****	****	2	0.6	2	2471	2	1	31	CE	N
MAR 5.81	MAR 4.81	900	1300	****	****	3	0.7	2	1663	2	1	81		
MAR 6.81	MAR 5.81	1300	830	****	****	2	0.8	2	1665	2	1	89	C	
MAR 10.81	MAR 9.81	830	830	****	****	3	2.1	2	1667	2	1	84	C	
MAR 11.81	MAR 10.81	830	830	****	****	2	1.8	2	1669	2	1	72	C	
MAR 14.81	MAR 13.81	800	900	2000	900	2	3.4	2	1671	2	1	65	C	C
MAR 17.81	MAR 16.81	830	830	2300	830	2	2.6	2	1673	2	1	48	C	MN
MAR 18.81	MAR 17.81	830	830	830	830	2	0.8	2	1675	2	1	25	BC	N
MAR 19.81	MAR 18.81	830	830	****	****	2	2.5	2	1676	2	1	46	C	MN
MAR 21.81	MAR 20.81	800	800	****	****	2	4.3	2	1678	2	1	65	C	
MAR 27.81	MAR 26.81	800	900	****	****	1	5.8	2	1680	2	1	114		
MAR 30.81	MAR 29.81	830	830	1800	600	1	2.4	2	1682	2	1	48	ACG	N
MAR 31.81	MAR 30.81	830	845	****	****	1	3.2	2	1684	2	1	132		N
APR 5.81	APR 4.81	800	900	****	****	1	****	*	1686	2	1	****	C	
APR 9.81	APR 8.81	830	830	2000	800	1	1.4	2	1690	2	1	150		CN
APR 11.81	APR 10.81	800	800	****	****	1	5.6	2	2318	2	1	102	C	M
APR 12.81	APR 11.81	800	800	****	****	1	****	*	1693	2	1	****	C	
APR 13.81	APR 12.81	800	830	1030	1800	1	1.1	2	1696	2	1	155		CN
APR 14.81	APR 13.81	830	830	****	****	1	31.4	2	2319	2	1	64	CD	
APR 17.81	APR 16.81	800	900	****	****	1	9.6	2	2000	2	1	109	C	
APR 18.81	APR 17.81	900	900	****	****	1	14.2	2	2001	2	1	107	C	
APR 23.81	APR 22.81	830	830	****	****	1	26.3	2	2002	2	1	99	C	
APR 24.81	APR 23.81	830	930	830	930	1	7.2	2	2003	2	1	110		
APR 28.81	APR 27.81	830	830	****	****	1	19.8	1	2004	2	1	94	CGL	
APR 29.81	APR 28.81	830	830	830	2000	1	8.0	1	2005	2	1	98	C	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/SES #02 PAGE : 2

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 28.81	JAN 27.81	251.	47.5	*****	U 5.55	0.0530	7.90	1.68
JAN 29.81	JAN 28.81	139.	52.0	*****	3.97	******	2.60	2.10
JAN 30.81	JAN 29.81	23.	*****	*****	U 7.42	******	*****	*****
FEB 1.81	JAN 31.81	530.	21.3	U 3.66	4.68	0.0732	3.15	0.48
FEB 2.81	FEB 1.81	1091.	25.0	4.03	4.31	0.0784	1.90	0.43
FEB 3.81	FEB 2.81	88.	*****	*****	4.21	******	1.60	0.98
FEB 6.81	FEB 5.81	322.	41.2	*****	4.13	0.1082	1.35	1.47
FEB 11.81	FEB 10.81	4106.	30.0	4.06	4.17	0.0918	2.10	0.50
FEB 12.81	FEB 11.81	109.	17.6	*****	4.52	******	0.90	0.47
FEB 17.81	FEB 16.81	403.	81.0	3.91	4.30	0.1150	9.25	1.72
FEB 19.81	FEB 18.81	93.	*****	*****	3.39	******	23.00	5.60
FEB 20.81	FEB 19.81	447.	120.0	3.53	3.66	0.2900	11.50	1.93
FEB 23.81	FEB 22.81	2982.	28.9	4.16	4.36	0.0816	2.50	0.44
FEB 25.81	FEB 24.81	303.	22.8	*****	4.74	0.0482	2.90	0.51
FEB 28.81	FEB 27.81	745.	53.0	3.91	U 4.16	0.1206	8.00	1.03
MAR 3.81	MAR 2.81	U 31.	*****	*****	*****	******	*****	*****
MAR 5.81	MAR 4.81	93.	*****	*****	U 7.66	******	7.86	1.31
MAR 6.81	MAR 5.81	117.	*****	*****	3.78	******	8.55	3.60
MAR 10.81	MAR 9.81	291.	58.5	*****	U 7.09	0.0366	7.50	2.70
MAR 11.81	MAR 10.81	213.	*****	*****	U 7.41	******	4.80	1.62
MAR 14.81	MAR 13.81	365.	24.9	U 6.79	U 7.23	0.0288	2.45	0.32
MAR 17.81	MAR 16.81	U 207.	*****	*****	U 7.61	0.0280	2.10	0.81
MAR 18.81	MAR 17.81	U 33.	*****	*****	U 7.87	******	*****	*****
MAR 19.81	MAR 18.81	U 191.	*****	*****	U 7.63	******	2.80	0.23
MAR 21.81	MAR 20.81	461.	21.4	4.55	4.58	0.0564	2.55	0.36
MAR 27.81	MAR 26.81	1084.	39.9	4.48	4.55	0.0772	6.40	1.78
MAR 30.81	MAR 29.81	U 190.	*****	*****	U 5.55	******	9.55	1.16
MAR 31.81	MAR 30.81	694.	13.2	4.76	4.81	0.0446	1.80	0.24
APR 5.81	APR 4.81	63.	*****	*****	U 7.70	******	*****	*****
APR 9.81	APR 8.81	345.	116.0	*****	U 7.73	0.0440	9.75	0.96
APR 11.81	APR 10.81	945.	22.9	U 6.56	U 7.01	0.0296	2.70	0.59
APR 12.81	APR 11.81	111.	*****	*****	U 6.93	******	6.60	0.58
APR 13.81	APR 12.81	280.	23.7	*****	4.46	0.0738	5.45	0.41
APR 14.81	APR 13.81	3325.	43.5	4.05	4.03	0.1236	3.85	0.56
APR 17.81	APR 16.81	1722.	36.5	4.49	4.91	0.0504	7.00	1.07
APR 18.81	APR 17.81	2495.	17.8	4.73	5.16	0.0440	2.90	0.57
APR 23.81	APR 22.81	4293.	16.7	U 5.52	U 6.45	0.0276	3.70	0.44
APR 24.81	APR 23.81	1301.	34.6	4.21	4.26	0.0960	3.45	0.77
APR 28.81	APR 27.81	3073.	24.8	U 4.80	U 5.77	0.0370	4.80	0.83
APR 29.81	APR 28.81	1294.	48.0	4.00	4.10	0.1236	4.55	0.82

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/SES #02 PAGE : 3

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 28.81	JAN 27.81	U 2.10	U 1.40	U 0.415	0.260	0.670	U 2.300	U 0.0028
JAN 29.81	JAN 28.81	U 1.03	1.49	0.155	0.040	0.570	0.730	0.1072
JAN 30.81	JAN 29.81	*****	*****	*****	*****	*****	*****	U 0.0000
FEB 1.81	JAN 31.81	0.90	0.28	0.165	0.070	0.250	0.320	0.0209
FEB 2.81	FEB 1.81	0.11	0.18	0.020	0.080	0.070	0.260	0.0490
FEB 3.81	FEB 2.81	0.53	0.88	0.120	0.040	0.100	0.280	0.0617
FEB 6.81	FEB 5.81	0.86	0.56	0.145	0.040	0.230	0.214	0.0741
FEB 11.81	FEB 10.81	0.11	0.19	0.020	0.020	0.070	0.202	0.0676
FEB 12.81	FEB 11.81	0.63	0.36	0.140	0.070	0.130	0.046	0.0302
FEB 17.81	FEB 16.81	1.40	2.35	0.230	1.060	2.100	1.850	0.0501
FEB 19.81	FEB 18.81	*****	2.00	*****	*****	*****	4.400	0.4074
FEB 20.81	FEB 19.81	0.50	0.46	0.095	0.110	0.200	1.220	0.2188
FEB 23.81	FEB 22.81	0.23	0.10	0.030	0.020	0.040	0.278	0.0437
FEB 25.81	FEB 24.81	0.55	0.18	0.130	0.040	0.050	0.530	0.0182
FEB 28.81	FEB 27.81	1.82	0.65	0.310	0.110	0.320	0.750	U 0.0692
MAR 3.81	MAR 2.81	*****	*****	*****	*****	*****	*****	******
MAR 5.81	MAR 4.81	*****	U 1.08	*****	*****	*****	0.700	U 0.0000
MAR 6.81	MAR 5.81	1.26	U 1.21	0.200	0.180	0.300	U 2.650	0.1660
MAR 10.81	MAR 9.81	U 3.45	U 1.18	U 0.510	0.150	0.610	U 2.250	U 0.0001
MAR 11.81	MAR 10.81	U 4.25	0.82	0.280	0.210	0.230	1.360	U 0.0000
MAR 14.81	MAR 13.81	U 2.10	0.52	U 0.325	0.130	0.300	0.346	U 0.0001
MAR 17.81	MAR 16.81	U 9.00	0.82	U 1.350	0.180	0.430	0.480	U 0.0000
MAR 18.81	MAR 17.81	*****	*****	*****	*****	*****	*****	U 0.0000
MAR 19.81	MAR 18.81	U 7.00	0.70	U 0.700	0.110	0.430	0.490	U 0.0000
MAR 21.81	MAR 20.81	0.61	0.20	0.115	0.040	0.130	0.190	0.0263
MAR 27.81	MAR 26.81	2.10	0.60	0.345	U 0.250	0.290	1.300	0.0282
MAR 30.81	MAR 29.81	U 2.50	0.52	U 0.660	0.220	0.400	1.490	U 0.0028
MAR 31.81	MAR 30.81	0.34	0.08	0.075	0.030	0.040	0.346	0.0155
APR 5.81	APR 4.81	*****	*****	*****	*****	*****	*****	U 0.0000
APR 9.81	APR 8.81	U 19.90	U 1.50	U 2.120	0.720	U 0.820	0.760	U 0.0000
APR 11.81	APR 10.81	U 2.65	0.26	U 0.470	0.100	0.120	0.480	U 0.0001
APR 12.81	APR 11.81	*****	0.24	*****	*****	*****	0.510	U 0.0001
APR 13.81	APR 12.81	U 1.25	0.17	0.190	0.090	0.080	0.440	0.0347
APR 14.81	APR 13.81	0.30	0.25	0.050	0.020	0.190	0.346	0.0933
APR 17.81	APR 16.81	2.75	0.42	0.550	0.030	0.230	0.690	0.0123
APR 18.81	APR 17.81	0.41	0.09	0.085	0.050	0.070	1.000	0.0069
APR 23.81	APR 22.81	1.79	0.10	U 0.365	0.030	0.050	0.216	U 0.0004
APR 24.81	APR 23.81	0.35	0.28	0.065	0.110	0.100	0.660	0.0550
APR 28.81	APR 27.81	U 1.67	0.20	U 0.335	0.030	0.050	0.830	U 0.0017
APR 29.81	APR 28.81	0.39	0.28	0.050	0.130	0.170	0.560	0.0794

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/SES #02

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
MAY 10.81	MAY 9.81	800	900	****	****	1	4.0	1	17001	2	1	84	ABC	
MAY 12.81	MAY 11.81	830	830	1800	2200	1	7.4	1	17005	2	1	97	C	
MAY 15.81	MAY 14.81	830	830	1200	500	1	6.2	1	17012	2	1	91		
MAY 16.81	MAY 15.81	800	900	****	****	1	2.1	1	17013	2	1	84		
MAY 25.81	MAY 24.81	830	900	600	900	1	4.2	1	17019	2	1	95	BCD	C
MAY 26.81	MAY 25.81	900	930	****	****	1	1.2	1	17017	2	1	89	AD	
MAY 28.81	MAY 27.81	830	830	****	****	1	5.2	1	17020	2	1	90	AC	
MAY 30.81	MAY 29.81	800	830	600	830	1	3.8	1	17025	2	1	93		
NOV 21.81	NOV 20.81	800	800	****	****	3	6.0	1	17134	2	1	88		
NOV 27.81	NOV 26.81	830	830	1800	2400	1	****	*	17141	2	1	****	C	
DEC 2.81	DEC 1.81	830	830	1900	2200	1	7.2	2	17144	2	1	113	C	
DEC 2.81	DEC 1.81	830	830	****	****	3	****	*	17145	2	1	****	E	
DEC 6.81	DEC 5.81	800	800	1100	1400	2	****	*	17146	2	1	****		
DEC 8.81	DEC 7.81	830	830	2330	830	3	6.8	2	17147	2	1	39	C	N
DEC 9.81	DEC 8.81	830	700	1800	830	2	2.4	2	17151	2	1	60	CD	C
DEC 10.81	DEC 9.81	830	830	****	****	2	5.6	2	17153	2	1	68	C	CM
DEC 11.81	DEC 10.81	830	830	****	****	2	****	2	17155	2	1	****	C	
DEC 15.81	DEC 14.81	830	1000	1000	1400	2	0.8	2	17156	2	1	109	C	
DEC 16.81	DEC 15.81	1000	830	1830	1930	2	0.2	2	17157	2	1	140	D	N
DEC 17.81	DEC 16.81	830	830	830	1200	2	0.4	2	17158	2	1	216	D	N
DEC 19.81	DEC 18.81	800	800	1900	2200	2	****	*	17159	2	1	****	D	CM
DEC 20.81	DEC 19.81	800	800	100	400	2	****	*	17160	2	1	****	C	CM
DEC 22.81	DEC 21.81	830	1030	****	****	2	****	*	17161	2	1	****	C	
DEC 22.81	DEC 21.81	830	1030	****	****	2	14.8	2	17167	2	1	18	D	N
DEC 23.81	DEC 22.81	800	800	****	****	2	24.3	2	17168	2	1	117		N
DEC 29.81	DEC 28.81	800	800	1500	1900	2	4.2	2	17169	2	1	131		N
JAN 1.82	DEC 31.81	800	800	1900	2200	1	5.0	2	17170	2	1	135		N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/SES #02

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
MAY 10.81	MAY 9.81	556.	117.0	U 7.12	U 7.54	0.0348	U 19.80	U 2.05
MAY 12.81	MAY 11.81	1177.	30.2	4.34	4.22	0.0900	3.05	0.38
MAY 15.81	MAY 14.81	934.	34.3	U 5.69	U 6.68	0.0280	7.15	1.06
MAY 16.81	MAY 15.81	291.	U 170.0	*****	3.56	******	18.20	2.80
MAY 25.81	MAY 24.81	656.	108.0	*****	U 7.31	0.0770	4.60	1.84
MAY 26.81	MAY 25.81	177.	*****	*****	4.07	******	5.40	0.56
MAY 28.81	MAY 27.81	772.	55.0	*****	4.28	0.1312	8.70	1.85
MAY 30.81	MAY 29.81	585.	16.6	*****	U 6.23	0.0328	U 3.50	U 0.38
NOV 21.81	NOV 20.81	871.	9.2	4.91	4.86	0.0462	0.60	0.18
NOV 27.81	NOV 26.81	1031.	42.8	4.12	4.22	0.1138	5.35	0.72
DEC 2.81	DEC 1.81	1345.	11.9	4.16	4.70	0.0630	1.05	0.18
DEC 2.81	DEC 1.81	1296.	*****	*****	*****	******	*****	*****
DEC 6.81	DEC 5.81	667.	11.0	5.95	U 6.07	0.0418	1.70	0.27
DEC 8.81	DEC 7.81	U 444.	20.4	4.87	4.93	0.0642	2.30	0.84
DEC 9.81	DEC 8.81	239.	9.8	*****	U 5.75	0.0378	1.65	0.21
DEC 10.81	DEC 9.81	625.	4.0	5.86	5.74	0.0396	0.55	0.05
DEC 11.81	DEC 10.81	84.	*****	*****	U 6.28	******	1.50	0.06
DEC 15.81	DEC 14.81	144.	42.8	*****	4.70	******	5.65	1.87
DEC 16.81	DEC 15.81	46.	*****	*****	U 6.98	******	3.00	0.45
DEC 17.81	DEC 16.81	142.	14.6	*****	U 5.26	******	0.70	0.74
DEC 19.81	DEC 18.81	1517.	8.4	*****	U 6.79	0.0304	0.20	0.05
DEC 20.81	DEC 19.81	402.	5.7	*****	U 6.13	0.0336	0.40	0.12
DEC 22.81	DEC 21.81	59.	*****	*****	U 6.45	******	*****	*****
DEC 22.81	DEC 21.81	U 459.	13.5	*****	4.55	0.0650	0.50	0.29
DEC 23.81	DEC 22.81	4682.	14.2	*****	4.51	0.0716	0.65	0.16
DEC 29.81	DEC 28.81	907.	29.2	*****	4.49	0.0772	2.50	1.05
JAN 1.82	DEC 31.81	1114.	37.6	*****	4.14	0.1222	2.55	0.61

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/SES #02 PAGE : 6

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
MAY 10,81	MAY 9,81	U 18.50	0.97	U 1.800	0.810	0.180	0.880	U 0.0000
MAY 12,81	MAY 11,81	0.09	0.08	0.010	0.020	0.050	0.460	0.0603
MAY 15,81	MAY 14,81	U 4.10	0.22	U 0.650	0.070	0.050	0.920	U 0.0002
MAY 16,81	MAY 15,81	U 1.37	0.55	U 0.175	0.110	0.100	U 2.600	0.2754
MAY 25,81	MAY 24,81	U 22.50	1.03	U 0.980	0.620	0.280	0.780	U 0.0000
MAY 26,81	MAY 25,81	0.27	0.17	0.040	0.050	0.080	0.800	0.0851
MAY 28,81	MAY 27,81	U 2.12	0.44	0.350	0.240	0.080	U 1.840	0.0525
MAY 30,81	MAY 29,81	U 1.21	0.15	U 0.205	0.170	0.040	0.580	U 0.0006
NOV 21,81	NOV 20,81	0.10	0.03	<T 0.005	0.020	0.060	0.116	0.0138
NOV 27,81	NOV 26,81	0.99	0.51	0.160	0.090	0.410	0.560	0.0603
DEC 2,81	DEC 1,81	0.22	<T 0.01	0.035	<T 0.010	0.020	0.090	0.0200
DEC 2,81	DEC 1,81	*****	*****	*****	*****	*****	*****	******
DEC 6,81	DEC 5,81	0.82	<T 0.01	0.135	0.020	0.060	0.400	U 0.0009
DEC 8,81	DEC 7,81	0.55	0.18	0.090	0.080	0.110	1.050	0.0117
DEC 9,81	DEC 8,81	0.57	0.05	0.125	0.020	0.060	0.268	U 0.0018
DEC 10,81	DEC 9,81	0.26	0.02	0.045	0.020	0.030	0.074	0.0018
DEC 11,81	DEC 10,81	*****	0.07	*****	*****	*****	0.180	U 0.0005
DEC 15,81	DEC 14,81	3.40	1.20	0.455	0.110	0.620	0.720	0.0200
DEC 16,81	DEC 15,81	*****	0.22	*****	*****	*****	*****	U 0.0001
DEC 17,81	DEC 16,81	U 1.11	0.53	0.205	0.030	0.150	0.120	U 0.0055
DEC 19,81	DEC 18,81	U 1.28	0.04	0.155	0.030	0.040	0.078	U 0.0002
DEC 20,81	DEC 19,81	0.44	0.15	0.065	0.030	0.060	0.150	U 0.0007
DEC 22,81	DEC 21,81	*****	*****	*****	*****	*****	*****	U 0.0004
DEC 22,81	DEC 21,81	0.04	0.04	<T 0.005	0.020	0.010	0.052	0.0282
DEC 23,81	DEC 22,81	0.03	0.03	<T 0.005	<T 0.010	<T 0.010	0.046	0.0309
DEC 29,81	DEC 28,81	U 1.09	0.34	U 0.185	0.050	0.140	0.570	0.0324
JAN 1,82	DEC 31,81	0.25	0.43	0.035	0.030	0.190	0.354	0.0724

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
NOV 2,80	NOV 1,80	800	800	****	****	3	0.5	1	270	2	1	74	C	
NOV 4,80	NOV 3,80	800	800	****	800	1	3.2	1	271	2	1	90		
NOV 5,80	NOV 4,80	800	800	****	****	3	3.6	1	272	2	1	86	C	
NOV 7,80	NOV 6,80	800	800	****	****	1	3.2	1	273	2	1	78		L
NOV 8,80	NOV 7,80	800	900	****	****	1	5.4	1	274	2	1	101		L
NOV 9,80	NOV 8,80	900	800	****	****	1	3.0	1	275	2	1	90	G	M
NOV 10,80	NOV 9,80	800	730	1800	2400	1	1.4	1	276	2	1	143		N
NOV 11,80	NOV 10,80	730	900	****	****	2	****	*	2179	2	1	****	IE	
NOV 14,80	NOV 13,80	800	800	1800	2400	1	5.4	1	278	2	1	90		L
NOV 18,80	NOV 17,80	800	800	1900	2400	2	****	*	279	2	1	****		
NOV 22,80	NOV 21,80	800	800	900	1500	3	2.6	1	280	2	1	36		N
NOV 23,80	NOV 22,80	800	800	****	****	1	0.6	1	2180	2	1	33	E	NC
NOV 24,80	NOV 23,80	800	800	****	****	1	****	*	282	2	1	****		
NOV 28,80	NOV 27,80	800	800	****	****	2	6.6	1	283	2	1	84	C	L
NOV 29,80	NOV 28,80	800	800	****	****	2	4.8	1	284	2	1	74		L
DEC 2,80	DEC 1,80	800	800	****	****	1	10.8	1	285	2	1	104		L
DEC 3,80	DEC 2,80	800	800	2000	2400	3	13.8	1	286	2	1	85	C	
DEC 9,80	DEC 7,80	800	800	****	****	1	18.4	1	287	2	1	93		Z
DEC 10,80	DEC 9,80	800	800	1200	2400	2	2.4	1	288	2	1	81		
DEC 11,80	DEC 10,80	800	800	****	****	2	1.4	1	289	2	1	54	G	
DEC 12,80	DEC 11,80	800	800	****	****	2	****	*	290	2	1	****	E	
DEC 14,80	DEC 13,80	800	800	****	****	2	4.8	1	291	2	1	****		LM
DEC 15,80	DEC 14,80	800	800	****	****	2	****	*	292	2	1	****	C	
DEC 18,80	DEC 17,80	800	800	1800	2400	2	1.6	1	293	2	1	23		N
DEC 19,80	DEC 18,80	800	800	1800	2400	2	1.2	1	294	2	1	79	C	
DEC 20,80	DEC 19,80	800	800	2400	800	2	****	*	295	2	1	****		
DEC 21,80	DEC 20,80	800	800	****	****	2	3.0	1	296	2	1	132		NM
DEC 25,80	DEC 24,80	800	800	****	****	2	3.8	1	297	2	1	75		M
DEC 29,80	DEC 28,80	800	800	2400	800	3	3.4	1	298	2	1	93		CM
DEC 30,80	DEC 29,80	800	800	800	1200	2	****	*	299	2	1	****		
JAN 2,81	JAN 1,81	800	800	****	****	2	****	*	2181	2	1	****	FE	C
JAN 3,81	JAN 2,81	800	800	****	****	2	3.8	1	301	2	1	60	C	
JAN 4,81	JAN 3,81	800	800	2400	800	2	0.3	1	302	2	1	36		N
JAN 5,81	JAN 4,81	800	800	****	****	2	****	*	2182	2	1	****	FIE	
JAN 6,81	JAN 5,81	800	800	900	1200	2	****	*	304	2	1	****		
JAN 7,81	JAN 6,81	800	800	****	****	2	****	*	305	2	1	****		
JAN 8,81	JAN 7,81	800	800	800	1600	2	0.8	1	306	2	1	83		
JAN 10,81	JAN 9,81	800	800	****	****	2	****	*	2183	2	1	****	EFI	C
JAN 11,81	JAN 10,81	800	800	****	****	2	0.8	1	308	2	1	97		
JAN 14,81	JAN 13,81	800	800	****	****	2	****	*	309	2	1	****		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

REMOVAL DATE	EXPOSURE DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		SULPHATE MG/L		NITRATE AS N MG/L	
NOV 2,80	NOV 1,80		24.	*****	*****		6.80		******		*****		*****	
NOV 4,80	NOV 3,80		185.	*****	*****		4.16		0.0988		3.80		0.99	
NOV 5,80	NOV 4,80		200.	*****	*****		4.62		0.0642		3.65		0.78	
NOV 7,80	NOV 6,80		160.	*****	*****		6.39		0.0412		3.25		0.37	
NOV 8,80	NOV 7,80		351.	29.5	4.34		4.76		0.0672		4.20		1.27	
NOV 9,80	NOV 8,80		174.	*****	*****		4.22		0.1030		6.35		1.71	
NOV 10,80	NOV 9,80		129.	*****	*****		5.03		0.0332		1.35		0.30	
NOV 11,80	NOV 10,80		*****	*****	*****		*****		******		*****		*****	
NOV 14,80	NOV 13,80		315.	45.5	*****		4.10		0.1086		5.30		0.53	
NOV 18,80	NOV 17,80		12.	*****	*****		5.99		******		*****		*****	
NOV 22,80	NOV 21,80	U	60.	*****	*****		6.27		******		2.30		0.53	
NOV 23,80	NOV 22,80	U	13.	*****	*****		*****		******		*****		*****	
NOV 24,80	NOV 23,80		95.	*****	*****		5.06		******		1.25		0.38	
NOV 28,80	NOV 27,80		358.	14.6	U 4.58	U	4.94	U	0.0390	U	1.65	U	0.60	
NOV 29,80	NOV 28,80		230.	*****	*****		4.05		0.1178		3.05		0.94	
DEC 2,80	DEC 1,80		724.	46.4	3.91		3.98		0.1548		3.35		0.94	
DEC 3,80	DEC 2,80		759.	17.7	4.36		4.50		0.0620		1.90		0.32	
DEC 9,80	DEC 7,80		1102.	27.8	4.13		4.20		0.0948		2.50		0.42	
DEC 10,80	DEC 9,80		126.	*****	*****	U	6.61		******		0.23		0.13	
DEC 11,80	DEC 10,80		49.	*****	*****	U	6.14		******		0.75		0.26	
DEC 12,80	DEC 11,80		*****	*****	*****		*****		******		*****		*****	
DEC 14,80	DEC 13,80		*****	*****	*****	U	6.59		******		4.50		1.50	
DEC 15,80	DEC 14,80		26.	*****	*****	U	6.85		******		*****		*****	
DEC 18,80	DEC 17,80	U	24.	*****	*****		5.56		******		*****		*****	
DEC 19,80	DEC 18,80		61.	*****	*****	U	6.75		******		*****		*****	
DEC 20,80	DEC 19,80		13.	*****	*****	U	6.80		******		*****		*****	
DEC 21,80	DEC 20,80		255.	*****	*****		5.78		0.0374		0.20		0.06	
DEC 25,80	DEC 24,80		185.	14.4	*****		4.66		******		1.00		0.46	
DEC 29,80	DEC 28,80		204.	6.8	*****		4.89		******		0.70		0.46	
DEC 30,80	DEC 29,80		221.	*****	*****		4.98		0.0328		0.60		0.14	
JAN 2,81	JAN 1,81		*****	*****	*****		*****		******		*****		*****	
JAN 3,81	JAN 2,81		147.	*****	*****	U	6.07		******		0.40		0.18	
JAN 4,81	JAN 3,81	U	7.	*****	*****		*****		******		*****		*****	
JAN 5,81	JAN 4,81		*****	*****	*****		*****		******		*****		*****	
JAN 6,81	JAN 5,81		22.	*****	*****	U	6.82		******		*****		*****	
JAN 7,81	JAN 6,81		159.	*****	*****		4.66		******		0.40		0.42	
JAN 8,81	JAN 7,81		43.	*****	*****	U	6.74		******		0.35		0.06	
JAN 10,81	JAN 9,81		*****	*****	*****		*****		******		*****		*****	
JAN 11,81	JAN 10,81		50.	*****	*****	U	6.05		******		1.85		0.32	
JAN 14,81	JAN 13,81		2.	*****	*****		*****		******		*****		*****	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
NOV 2.80	NOV 1.80	*****	*****	*****	*****	*****	*****	0.0002
NOV 4.80	NOV 3.80	0.59	0.14	0.115	0.040	0.040	0.750	0.0692
NOV 5.80	NOV 4.80	0.32	0.12	0.060	0.070	0.035	1.300	0.0240
NOV 7.80	NOV 6.80	1.31	0.17	0.225	0.060	0.045	0.540	0.0004
NOV 8.80	NOV 7.80	1.29	0.24	0.125	0.090	0.055	1.350	0.0174
NOV 9.80	NOV 8.80	1.17	0.41	0.190	0.100	0.185	0.970	0.0603
NOV 10.80	NOV 9.80	*****	0.02	*****	*****	*****	0.470	0.0093
NOV 11.80	NOV 10.80	*****	*****	*****	*****	*****	*****	******
NOV 14.80	NOV 13.80	1.26	0.26	0.205	0.070	0.090	0.540	0.0794
NOV 18.80	NOV 17.80	*****	*****	*****	*****	*****	*****	0.0010
NOV 22.80	NOV 21.80	*****	0.19	*****	*****	*****	*****	0.0005
NOV 23.80	NOV 22.80	*****	*****	*****	*****	*****	*****	******
NOV 24.80	NOV 23.80	*****	0.07	*****	*****	*****	0.490	0.0087
NOV 28.80	NOV 27.80	0.79	0.20	U 0.275	0.030	0.060	0.178	U 0.0115
NOV 29.80	NOV 28.80	0.60	0.35	0.040	0.200	0.180	0.270	0.0891
DEC 2.80	DEC 1.80	0.19	0.24	0.025	0.060	0.090	0.510	0.1047
DEC 3.80	DEC 2.80	0.24	0.08	0.050	0.030	0.040	0.300	0.0316
DEC 9.80	DEC 7.80	0.06	0.20	0.015	0.020	0.090	0.420	0.0631
DEC 10.80	DEC 9.80	*****	0.29	*****	*****	*****	*****	U 0.0002
DEC 11.80	DEC 10.80	*****	0.18	*****	*****	*****	*****	U 0.0007
DEC 12.80	DEC 11.80	3.40	*****	0.775	0.190	0.240	1.160	******
DEC 14.80	DEC 13.80	*****	0.60	*****	*****	*****	*****	U 0.0003
DEC 15.80	DEC 14.80	*****	*****	*****	*****	*****	*****	U 0.0001
DEC 18.80	DEC 17.80	*****	*****	*****	*****	*****	*****	0.0028
DEC 19.80	DEC 18.80	*****	*****	*****	*****	*****	*****	U 0.0002
DEC 20.80	DEC 19.80	0.16	0.09	0.035	< 0.010	0.090	0.061	U 0.0002
DEC 21.80	DEC 20.80	0.59	0.20	0.100	0.030	0.140	0.268	0.0017
DEC 25.80	DEC 24.80	0.17	0.03	0.020	< 0.010	0.030	0.062	0.0219
DEC 29.80	DEC 28.80	0.17	0.01	0.030	< 0.010	0.010	0.058	0.0129
DEC 30.80	DEC 29.80	*****	*****	*****	*****	*****	*****	0.0105
JAN 2.81	JAN 1.81	0.26	0.03	0.060	< 0.010	0.040	0.172	******
JAN 3.81	JAN 2.81	*****	*****	*****	*****	*****	*****	U 0.0009
JAN 4.81	JAN 3.81	*****	*****	*****	*****	*****	*****	******
JAN 5.81	JAN 4.81	*****	*****	*****	*****	*****	*****	******
JAN 6.81	JAN 5.81	0.14	0.06	0.020	< 0.010	0.030	0.100	U 0.0002
JAN 7.81	JAN 6.81	*****	0.12	*****	*****	*****	*****	0.0219
JAN 8.81	JAN 7.81	*****	*****	*****	*****	*****	*****	U 0.0002
JAN 10.81	JAN 9.81	*****	0.14	*****	*****	*****	*****	******
JAN 11.81	JAN 10.81	*****	*****	*****	*****	*****	*****	U 0.0009
JAN 14.81	JAN 13.81							******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
								*	310	2	1	****		
								*	311	2	1	****		H
JAN 15.81	JAN 14.81	800	800	****	****	2	****							
JAN 16.81	JAN 15.81	800	800	****	****	2	****							
MAY 6.81	MAY 5.81	800	800	1900	2300	1	1.8	1	18301	2	1	76	C	
MAY 10.81	MAY 9.81	800	800	1300	800	1	6.0	1	18302	2	1	93		
MAY 11.81	MAY 10.81	800	800	****	****	1	19.6	1	18303	2	1	101	QQ	
MAY 12.81	MAY 11.81	800	800	****	****	1	3.2	1	18304	2	1	98		
MAY 15.81	MAY 14.81	800	800	1400	2000	1	4.2	1	18305	2	1	88	C	
MAY 16.81	MAY 15.81	800	800	****	****	1	10.4	1	18306	2	1	126		N
MAY 25.81	MAY 24.81	800	800	2000	800	1	0.6	1	18307	2	1	38	E	N
MAY 26.81	MAY 25.81	800	800	****	****	1	3.6	1	18308	2	1	81	Q	
MAY 27.81	MAY 26.81	800	800	****	****	1	1.0	1	18309	2	1	170		N
MAY 28.81	MAY 27.81	800	800	800	1500	1	4.0	1	18310	2	1	43	G	N
MAY 29.81	MAY 28.81	800	800	****	****	1	0.8	1	18311	2	1	52		
MAY 31.81	MAY 30.81	800	800	****	****	1	****	*	81312	2	1	****	E	
JUN 4.81	JUN 3.81	800	800	****	****	1	0.6	1	18313	2	1	****	E	
JUN 9.81	JUN 8.81	800	800	600	700	1	3.8	1	18314	2	1	85	C	
JUN 10.81	JUN 9.81	800	800	800	1600	1	0.4	1	18315	2	1	39	E	N
JUN 11.81	JUN 10.81	800	800	900	100	1	1.7	1	18316	2	1	49		N
JUN 14.81	JUN 13.81	800	800	800	1500	1	10.0	1	18317	2	1	96	C	
JUN 15.81	JUN 14.81	800	800	1400	2000	1	0.8	1	18318	2	1	****	AE	
JUN 17.81	JUN 16.81	800	800	****	****	1	5.7	1	18319	2	1	97	A	
JUN 21.81	JUN 20.81	800	800	****	****	1	17.2	1	18320	2	1	100	ACD	
JUN 22.81	JUN 21.81	800	800	900	1400	1	25.0	1	18321	2	1	109	A	
JUN 23.81	JUN 22.81	800	800	****	****	1	4.0	1	18322	2	1	86	C	
JUL 1.81	JUN 30.81	800	800	900	1200	1	3.8	1	18323	2	1	94	C	
JUL 2.81	JUL 1.81	800	800	****	****	1	1.2	1	18324	2	1	63	AC	
JUL 3.81	JUL 2.81	800	800	****	****	1	0.4	1	18325	2	1	54	CE	
JUL 5.81	JUL 4.81	800	800	****	****	1	10.2	1	18326	2	1	94	AC	
JUL 6.81	JUL 5.81	800	800	****	****	1	4.6	1	18327	2	1	29	CG	N
JUL 18.81	JUL 17.81	800	700	****	****	1	7.0	1	18328	2	1	88	AC	M
JUL 19.81	JUL 18.81	800	800	****	****	1	12.0	1	18329	2	1	101	AC	M
JUL 20.81	JUL 19.81	800	800	800	1000	1	1.0	1	18330	2	1	68		
JUL 21.81	JUL 20.81	800	800	800	1400	1	1.0	1	18331	2	1	53	A	
JUL 27.81	JUL 26.81	900	900	****	****	1	9.6	1	18332	2	1	68	C	
JUL 28.81	JUL 27.81	900	900	****	****	1	22.6	1	18027	2	1	98		C
JUL 28.81	JUL 27.81	900	900	****	****	1	16.3	1	18333	2	1	103	AC	C
JUL 29.81	JUL 28.81	900	900	900	1600	1	3.4	1	18028	2	1	62		
JUL 29.81	JUL 28.81	800	800	800	1400	1	21.4	1	18334	2	1	107	CJ	
AUG 4.81	AUG 3.81	800	800	****	****	1	4.4	1	18335	2	1	60	A	H
AUG 5.81	AUG 4.81						4.8	1	18336	2	1	87		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 UG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 15.81	JAN 14.81	17.	*****	*****	*****	******	*****	*****
JAN 16.81	JAN 15.81	181.	85.0	*****	3.80	******	5.35	1.90
MAY 6.81	MAY 5.81	88.	*****	*****	4.30	******	12.80	2.65
MAY 10.81	MAY 9.81	358.	97.5	*****	3.73	0.2452	10.40	1.25
MAY 11.81	MAY 10.81	U 1271.	89.0	U 6.51	U 6.91	0.1998	7.70	0.75
MAY 12.81	MAY 11.81	202.	*****	*****	3.97	******	6.40	0.65
MAY 15.81	MAY 14.81	238.	50.0	*****	U 7.19	0.0602	6.20	0.67
MAY 16.81	MAY 15.81	844.	70.0	3.78	3.82	0.1992	8.05	0.84
MAY 25.81	MAY 24.81	U 15.	*****	*****	*****	******	*****	*****
MAY 26.81	MAY 25.81	189.	*****	*****	4.91	******	9.85	0.76
MAY 27.81	MAY 26.81	109.	*****	*****	U 6.77	******	9.50	2.62
MAY 28.81	MAY 27.81	U 111.	*****	*****	3.89	******	9.80	1.31
MAY 29.81	MAY 28.81	27.	*****	*****	4.78	******	*****	*****
MAY 31.81	MAY 30.81	*****	*****	*****	*****	******	*****	*****
JUN 4.81	JUN 3.81	*****	*****	*****	*****	******	*****	*****
JUN 9.81	JUN 8.81	209.	*****	*****	4.76	******	4.45	0.52
JUN 10.81	JUN 9.81	U 10.	*****	*****	*****	******	*****	*****
JUN 11.81	JUN 10.81	54.	*****	*****	U 6.77	******	U 12.30	U 3.25
JUN 14.81	JUN 13.81	616.	26.7	*****	4.43	0.0758	4.00	0.55
JUN 15.81	JUN 14.81	*****	*****	*****	*****	******	*****	*****
JUN 17.81	JUN 16.81	358.	25.2	*****	4.56	0.0650	3.55	0.58
JUN 21.81	JUN 20.81	1113.	40.6	*****	4.14	0.1042	5.35	0.55
JUN 22.81	JUN 21.81	1756.	19.5	*****	4.40	0.0702	2.00	0.25
JUN 23.81	JUN 22.81	222.	*****	*****	4.42	******	3.05	0.36
JUL 1.81	JUN 30.81	230.	*****	*****	U 6.45	******	2.00	0.29
JUL 2.81	JUL 1.81	49.	*****	*****	5.61	******	8.90	1.26
JUL 3.81	JUL 2.81	14.	*****	*****	*****	******	*****	*****
JUL 5.81	JUL 4.81	620.	76.0	*****	3.84	0.1872	8.35	1.19
JUL 6.81	JUL 5.81	U 86.	*****	*****	4.30	******	U 6.40	U 0.64
JUL 18.81	JUL 17.81	397.	64.0	*****	U 7.58	0.0570	6.75	0.74
JUL 19.81	JUL 18.81	780.	95.0	*****	3.76	0.2250	U 12.50	1.08
JUL 20.81	JUL 19.81	44.	*****	*****	3.73	******	10.50	1.56
JUL 21.81	JUL 20.81	34.	*****	*****	3.56	******	*****	*****
JUL 27.81	JUL 26.81	424.	101.5	*****	3.68	0.2532	11.20	0.66
JUL 28.81	JUL 27.81	1434.	24.0	*****	4.37	0.0692	1.75	0.17
JUL 28.81	JUL 27.81	1083.	U 22.0	*****	4.47	0.0660	1.85	0.14
JUL 29.81	JUL 28.81	136.	*****	*****	3.85	******	7.10	0.81
JUL 29.81	JUL 28.81	1477.	40.7	*****	4.08	0.1132	3.60	0.41
AUG 4.81	AUG 3.81	170.	*****	*****	3.57	******	17.30	0.99
AUG 5.81	AUG 4.81	269.	28.5	*****	4.45	0.0724	4.40	0.56

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 15.81	JAN 14.81	*****	*****	*****	*****	*****	*****	******
JAN 16.81	JAN 15.81	0.56	1.18	0.140	0.050	0.260	0.284	0.1585
MAY 6.81	MAY 5.81	*****	1.15	*****	*****	*****	4.350	0.0501
MAY 10.81	MAY 9.81	0.39	0.22	0.070	0.050	0.050	1.160	0.1862
MAY 11.81	MAY 10.81	U 1.19	U 1.60	U 0.220	U 1.500	U 0.630	U 9.000	U 0.0001
MAY 12.81	MAY 11.81	0.36	0.19	0.070	0.050	0.040	0.770	0.1072
MAY 15.81	MAY 14.81	*****	0.39	*****	*****	*****	U 3.650	U 0.0001
MAY 16.81	MAY 15.81	0.25	0.18	0.045	0.070	0.040	0.730	0.1514
MAY 25.81	MAY 24.81	*****	*****	*****	*****	*****	*****	******
MAY 26.81	MAY 25.81	*****	0.27	*****	*****	*****	1.640	0.0123
MAY 27.81	MAY 26.81	*****	0.58	*****	*****	*****	U 3.200	U 0.0002
MAY 28.81	MAY 27.81	*****	0.29	*****	*****	*****	U 2.070	0.1288
MAY 29.81	MAY 28.81	*****	*****	*****	*****	*****	*****	0.0166
MAY 31.81	MAY 30.81	*****	*****	*****	*****	*****	*****	******
JUN 4.81	JUN 3.81	*****	*****	*****	*****	*****	*****	******
JUN 9.81	JUN 8.81	0.85	0.22	0.180	0.070	0.040	0.900	0.0174
JUN 10.81	JUN 9.81	*****	*****	*****	*****	*****	*****	******
JUN 11.81	JUN 10.81	*****	U 0.84	*****	*****	*****	*****	U 0.0002
JUN 14.81	JUN 13.81	0.46	0.18	0.140	0.130	0.070	0.810	0.0372
JUN 15.81	JUN 14.81	*****	*****	*****	*****	*****	*****	******
JUN 17.81	JUN 16.81	0.71	0.29	0.125	0.090	0.110	0.740	0.0275
JUN 21.81	JUN 20.81	0.51	0.13	0.130	0.070	0.040	0.720	0.0724
JUN 22.81	JUN 21.81	0.09	<T 0.01	0.005	<T 0.010	0.010	0.280	0.0398
JUN 23.81	JUN 22.81	0.13	<T 0.01	0.020	0.020	0.020	0.670	0.0380
JUL 1.81	JUN 30.81	U 0.55	0.10	U 0.170	0.010	0.020	0.640	U 0.0084
JUL 2.81	JUL 1.81	*****	0.69	*****	*****	*****	*****	0.0025
JUL 3.81	JUL 2.81	*****	*****	*****	*****	*****	*****	******
JUL 5.81	JUL 4.81	0.63	0.27	0.115	0.130	0.080	U 1.040	0.1445
JUL 6.81	JUL 5.81	*****	U 0.28	*****	*****	*****	*****	0.0501
JUL 18.81	JUL 17.81	0.88	0.41	0.185	U 0.910	0.160	U 6.400	U 0.0000
JUL 19.81	JUL 18.81	1.13	0.74	0.260	0.110	0.080	0.268	0.1738
JUL 20.81	JUL 19.81	*****	0.41	*****	*****	*****	*****	0.1862
JUL 21.81	JUL 20.81	*****	*****	*****	*****	*****	*****	0.2754
JUL 27.81	JUL 26.81	0.40	0.16	0.050	0.050	0.040	0.800	0.2089
JUL 28.81	JUL 27.81	0.06	0.10	0.005	0.010	0.070	0.096	0.0427
JUL 28.81	JUL 27.81	0.12	0.10	0.020	0.050	0.060	0.174	0.0339
JUL 29.81	JUL 28.81	0.21	0.35	0.045	0.090	0.170	*****	0.1413
JUL 29.81	JUL 28.81	0.04	0.06	0.005	0.020	0.020	0.274	0.0832
AUG 4.81	AUG 3.81	U 1.69	0.44	U 0.265	0.170	0.060	<T 0.002	0.2692
AUG 5.81	AUG 4.81	0.75	0.20	0.115	0.050	0.060	0.880	0.0355

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
AUG 9.81	AUG 8.81	800	800	****	****	1	2.0	1	18337	2	1	50		
AUG 12.81	AUG 11.81	800	800	****	****	1	2.6	1	18338	2	1	79		
AUG 15.81	AUG 14.81	800	800	****	****	1	13.0	1	18339	2	1	96	A	
AUG 16.81	AUG 15.81	800	800	****	****	1	3.0	1	18340	2	1	84		
AUG 27.81	AUG 26.81	800	800	****	****	1	0.8	1	18341	2	1	54		
AUG 28.81	AUG 27.81	800	800	2000	800	1	7.2	1	18342	2	1	100	A	
AUG 29.81	AUG 28.81	800	800	****	****	1	6.4	1	18343	2	1	97		
AUG 30.81	AUG 29.81	800	800	****	****	1	25.0	1	18344	2	1	154		N
AUG 31.81	AUG 30.81	800	800	****	****	1	****	1	18345	2	1	****		
SEP 1.81	AUG 31.81	800	830	1600	2130	1	1.0	1	18346	2	1	63		
SEP 2.81	SEP 1.81	800	800	****	****	1	29.0	1	18353	2	1	104		
SEP 3.81	SEP 2.81	800	800	****	****	1	1.0	1	18347	2	1	42	D	N
SEP 4.81	SEP 3.81	800	800	****	****	1	42.3	1	18354	2	1	105	C	
SEP 5.81	SEP 4.81	800	800	****	****	1	3.0	1	18348	2	1	71		
SEP 7.81	SEP 6.81	800	800	****	****	1	4.1	1	18349	2	1	108		
SEP 8.81	SEP 7.81	800	800	****	****	1	1.6	1	18350	2	1	65		
SEP 14.81	SEP 13.81	800	800	****	****	1	1.6	1	18351	2	1	31	C	N
SEP 17.81	SEP 16.81	800	800	****	****	1	3.0	1	18352	2	1	86		
SEP 18.81	SEP 17.81	800	800	****	****	1	7.6	1	18355	2	1	113		
SEP 22.81	SEP 21.81	800	800	****	****	1	16.4	1	18356	2	1	98		
SEP 26.81	SEP 25.81	800	800	****	****	1	4.0	1	18357	2	1	79		
SEP 27.81	SEP 26.81	800	800	****	****	1	4.8	1	18358	2	1	88		
SEP 28.81	SEP 27.81	800	800	****	****	1	2.6	1	18359	2	1	70	C	
SEP 29.81	SEP 28.81	800	800	800	1100	1	1.4	1	18360	2	1	43	BC	N
SEP 30.81	SEP 29.81	800	800	2000	800	1	12.4	1	18361	2	1	86	AD	
OCT 1.81	SEP 30.81	800	800	800	1400	1	13.8	1	18362	2	1	97	AC	
OCT 3.81	OCT 2.81	800	800	****	****	1	0.3	1	18363	2	1	109	C	
OCT 6.81	OCT 5.81	800	800	****	****	1	****	1	18364	2	1	****		
OCT 7.81	OCT 6.81	800	800	****	****	1	9.4	1	18365	2	1	83		
OCT 15.81	OCT 14.81	800	800	****	****	1	1.6	1	18366	2	1	38	C	N
OCT 16.81	OCT 15.81	800	800	****	****	1	1.0	1	18367	2	1	32	C	N
OCT 18.81	OCT 17.81	800	800	****	****	1	15.6	1	18368	2	1	98		
OCT 19.81	OCT 18.81	800	800	800	800	3	6.8	1	18369	2	1	95	BC	C
OCT 20.81	OCT 19.81	800	800	800	1600	1	2.4	1	18370	2	1	40		N
OCT 21.81	OCT 20.81	800	800	****	****	1	2.2	1	18371	2	1	75	C	
OCT 22.81	OCT 21.81	800	800	****	****	3	9.2	1	18372	2	1	116		
OCT 23.81	OCT 22.81	800	800	1400	800	1	16.0	1	18373	2	1	92		
OCT 24.81	OCT 23.81	800	800	800	2000	3	4.0	1	18374	2	1	10	C	N
OCT 26.81	OCT 25.81	800	800	****	****	1	1.8	1	18375	2	1	117		
OCT 28.81	OCT 27.81	800	800	****	****	1	22.5	1	18376	2	1	100		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03 PAGE : 8

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
AUG 9.81	AUG 8.81	65.	*****	*****	3.74	******	11.50	U 2.32
AUG 12.81	AUG 11.81	132.	*****	*****	4.02	******	8.30	0.89
AUG 15.81	AUG 14.81	805.	77.5	*****	3.80	U 0.2036	7.60	0.86
AUG 16.81	AUG 15.81	162.	*****	*****	3.64	******	13.00	1.39
AUG 27.81	AUG 26.81	28.	*****	*****	*****	******	> 10.00	3.15
AUG 28.81	AUG 27.81	462.	106.0	*****	3.68	0.2610	10.00	1.21
AUG 29.81	AUG 28.81	399.	137.0	*****	3.56	0.3396	14.50	1.43
AUG 30.81	AUG 29.81	U 2480.	84.5	*****	3.79	0.2084	8.70	0.76
AUG 31.81	AUG 30.81	3880.	28.3	*****	4.33	0.0830	3.30	0.28
SEP 1.81	AUG 31.81	41.	*****	*****	3.86	******	6.95	1.40
SEP 2.81	SEP 1.81	1934.	24.2	4.17	4.23	0.0784	2.35	0.21
SEP 3.81	SEP 2.81	U 27.	*****	*****	3.68	******	*****	*****
SEP 4.81	SEP 3.81	2852.	23.0	4.21	4.21	0.0834	1.90	0.28
SEP 5.81	SEP 4.81	138.	*****	*****	3.76	******	9.05	1.53
SEP 7.81	SEP 6.81	285.	14.9	*****	6.41	0.0298	2.60	0.37
SEP 8.81	SEP 7.81	67.	*****	*****	3.97	******	5.55	0.92
SEP 14.81	SEP 13.81	U 32.	*****	*****	U 7.04	******	8.20	> 2.00
SEP 17.81	SEP 16.81	167.	*****	*****	U 6.45	******	1.45	0.19
SEP 18.81	SEP 17.81	555.	33.8	4.06	4.17	0.0974	3.20	0.45
SEP 22.81	SEP 21.81	1040.	20.0	4.29	4.45	0.0640	1.80	0.21
SEP 26.81	SEP 25.81	205.	*****	*****	3.93	******	8.20	0.96
SEP 27.81	SEP 26.81	272.	30.8	*****	4.28	0.0824	3.25	0.41
SEP 28.81	SEP 27.81	118.	*****	*****	5.99	******	0.50	0.04
SEP 29.81	SEP 28.81	U 39.	*****	*****	U 6.79	******	1.60	0.05
SEP 30.81	SEP 29.81	691.	16.0	4.45	4.54	0.0618	1.75	0.16
OCT 1.81	SEP 30.81	864.	24.5	4.32	4.38	0.0870	2.70	0.28
OCT 3.81	OCT 2.81	21.	*****	*****	4.13	******	*****	*****
OCT 6.81	OCT 5.81	560.	46.2	3.97	4.08	0.1234	4.10	0.60
OCT 7.81	OCT 6.81	503.	16.4	4.48	4.64	0.0638	1.75	0.31
OCT 15.81	OCT 14.81	U 40.	*****	*****	4.26	******	*****	*****
OCT 16.81	OCT 15.81	U 21.	*****	*****	4.83	******	*****	*****
OCT 18.81	OCT 17.81	984.	19.5	4.37	4.31	0.0724	1.60	0.22
OCT 19.81	OCT 18.81	415.	9.4	U 5.67	U 6.52	0.0394	0.70	<T 0.01
OCT 20.81	OCT 19.81	U 63.	*****	*****	U 5.99	******	0.20	<T 0.01
OCT 21.81	OCT 20.81	106.	*****	*****	4.12	******	2.90	1.05
OCT 22.81	OCT 21.81	686.	36.5	4.11	4.18	0.0946	3.00	0.67
OCT 23.81	OCT 22.81	947.	16.2	4.48	4.43	0.0746	1.20	0.16
OCT 24.81	OCT 23.81	U 28.	*****	*****	4.72	******	*****	*****
OCT 26.81	OCT 25.81	135.	*****	*****	4.01	******	2.40	0.83
OCT 28.81	OCT 27.81	1448.	12.1	4.67	4.69	0.0470	1.30	0.10

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB UG/L
AUG 9,81	AUG 8,81	*****	0.66	*****	*****	*****	*****	0.1820
AUG 12,81	AUG 11,81	U 1.05	0.31	0.165	0.110	0.060	U 1.090	0.0955
AUG 15,81	AUG 14,81	0.34	0.24	0.070	U 0.090	0.070	0.560	0.1585
AUG 16,81	AUG 15,81	0.30	0.32	0.050	0.060	0.080	1.480	0.2291
AUG 27,81	AUG 26,81	*****	1.64	*****	*****	*****	*****	******
AUG 28,81	AUG 27,81	0.39	0.28	0.060	0.050	0.040	0.700	0.2089
AUG 29,81	AUG 28,81	0.37	0.36	0.065	0.080	0.080	1.000	0.2754
AUG 30,81	AUG 29,81	0.36	0.20	0.045	0.030	0.030	0.590	0.1622
AUG 31,81	AUG 30,81	0.13	0.10	0.010	0.020	0.010	0.520	0.0468
SEP 1,81	AUG 31,81	*****	0.42	*****	*****	*****	*****	0.1380
SEP 2,81	SEP 1,81	0.16	0.02	0.025	0.010	0.020	0.134	0.0589
SEP 3,81	SEP 2,81	*****	*****	*****	*****	*****	*****	0.2089
SEP 4,81	SEP 3,81	0.05	0.40	<T 0.005	0.020	0.020	0.150	0.0617
SEP 5,81	SEP 4,81	0.69	0.68	0.075	0.120	0.320	1.270	0.1738
SEP 7,81	SEP 6,81	0.25	0.10	0.065	0.030	0.010	1.220	0.0004
SEP 8,81	SEP 7,81	*****	0.41	*****	*****	*****	*****	0.1072
SEP 14,81	SEP 13,81	*****	1.10	*****	*****	*****	*****	U 0.0001
SEP 17,81	SEP 16,81	U 0.80	0.17	U 0.180	0.080	0.040	0.214	U 0.0004
SEP 18,81	SEP 17,81	0.15	0.04	0.040	0.010	0.030	0.330	0.0676
SEP 22,81	SEP 21,81	0.03	0.02	0.015	0.010	0.010	0.282	0.0355
SEP 26,81	SEP 25,81	1.08	0.17	0.240	0.030	0.070	0.780	0.1175
SEP 27,81	SEP 26,81	0.51	0.10	0.055	0.020	0.080	0.350	0.0525
SEP 28,81	SEP 27,81	0.08	0.02	0.020	0.020	0.080	0.188	0.0010
SEP 29,81	SEP 28,81	*****	0.14	*****	*****	*****	*****	U 0.0002
SEP 30,81	SEP 29,81	0.17	<T 0.01	0.030	<T 0.010	0.020	0.126	0.0288
OCT 1,81	SEP 30,81	0.09	0.02	0.015	0.010	0.030	0.340	0.0417
OCT 3,81	OCT 2,81	*****	*****	*****	*****	*****	*****	0.0741
OCT 6,81	OCT 5,81	0.11	0.10	0.020	0.010	0.060	0.600	0.0832
OCT 7,81	OCT 6,81	0.04	0.03	0.010	0.020	0.030	0.390	0.0229
OCT 15,81	OCT 14,81	*****	*****	*****	*****	*****	*****	0.0550
OCT 16,81	OCT 15,81	*****	*****	*****	*****	*****	*****	0.0148
OCT 18,81	OCT 17,81	0.10	<T 0.01	0.010	<T 0.010	<T 0.010	0.124	0.0490
OCT 19,81	OCT 18,81	0.40	0.07	0.275	U 1.350	0.030	<T 0.002	U 0.0003
OCT 20,81	OCT 19,81	*****	0.08	*****	*****	*****	*****	U 0.0010
OCT 21,81	OCT 20,81	*****	0.16	*****	*****	*****	0.780	0.0759
OCT 22,81	OCT 21,81	0.12	0.10	0.025	0.020	0.020	0.550	0.0661
OCT 23,81	OCT 22,81	0.05	0.04	0.010	<T 0.010	0.010	0.114	0.0372
OCT 24,81	OCT 23,81	*****	*****	*****	*****	*****	*****	0.0191
OCT 26,81	OCT 25,81	0.22	0.30	0.040	0.020	0.090	0.016	0.0977
OCT 28,81	OCT 27,81	0.07	0.02	0.040	0.020	0.030	0.116	0.0204

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
NOV 6.81	NOV 5.81	800	800	****	****	1	3.2	1	18377	2	1	88		
NOV 7.81	NOV 6.81	800	800	****	****	3	2.3	1	18378	2	1	63		
DEC 4.81	DEC 3.81	800	800	****	****	1	****	2	18390	2	1	****	C	
DEC 5.81	DEC 4.81	800	800	****	****	2	1.0	2	18391	2	1	145	CD	N
DEC 6.81	DEC 5.81	800	800	****	****	2	0.6	2	18392	2	1	78	HL	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L		SULPHATE MG/L		NITRATE AS N MG/L	
NOV 6.81	NOV 5.81	181.	*****	*****		4.19	******		4.85		0.64	
NOV 7.81	NOV 6.81	94.	*****	*****	U	6.52	******		2.15	U	0.74	U
DEC 4.81	DEC 3.81	37.	*****	*****	U	7.17	******		5.80		1.03	
DEC 5.81	DEC 4.81	93.	*****	*****	U	6.14	******		1.90		0.21	
DEC 6.81	DEC 5.81	30.	*****	*****		4.56	******		*****		*****	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
NOV 6.81	NOV 5.81	0.27	0.56	0.055	0.030	0.120	0.790	0.0646
NOV 7.81	NOV 6.81	*****	0.40	*****	*****	*****	0.322	U 0.0003
DEC 4.81	DEC 3.81	*****	> 1.50	*****	*****	*****	*****	U 0.0001
DEC 5.81	DEC 4.81	*****	0.18	*****	*****	*****	0.590	U 0.0007
DEC 6.81	DEC 5.81	*****	*****	*****	*****	*****	*****	0.0275

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/SES #03

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 17.81	JAN 16.81	800	800	****	****	2	0.4	1	312	2	1	89		L
JAN 19.81	JAN 18.81	800	800	****	****	2	****	*	313	2	1	****		L
JAN 20.81	JAN 19.81	800	800	****	****	2	****	*	314	2	1	****		L
JAN 21.81	JAN 20.81	800	800	****	****	2	****	*	315	2	1	****		
JAN 22.81	JAN 21.81	800	800	****	****	2	****	*	316	2	1	****		L
JAN 23.81	JAN 22.81	800	800	****	****	2	****	*	317	2	1	****	C	
JAN 24.81	JAN 23.81	800	800	****	****	2	****	*	318	2	1	****		
JAN 25.81	JAN 24.81	800	800	****	****	2	****	*	2184	2	1	****	EI	
JAN 26.81	JAN 25.81	800	800	****	****	2	****	*	320	2	1	****		L
JAN 27.81	JAN 26.81	800	800	****	****	2	****	*	321	2	1	****		
JAN 29.81	JAN 28.81	800	800	****	****	2	****	*	322	2	1	****		L
JAN 30.81	JAN 29.81	800	800	****	****	2	****	*	323	2	1	****		
JAN 31.81	JAN 30.81	800	800	****	****	2	****	*	324	2	1	****		
FEB 2.81	FEB 1.81	800	800	****	****	2	****	*	325	2	1	****		
FEB 3.81	FEB 2.81	800	800	****	****	2	****	*	326	2	1	****		
FEB 4.81	FEB 3.81	800	800	****	****	2	****	*	327	2	1	****		L
FEB 5.81	FEB 4.81	800	800	****	****	2	****	*	1698	2	1	****	C	
FEB 6.81	FEB 5.81	800	800	****	****	2	****	*	1699	2	1	****	C	
FEB 7.81	FEB 6.81	800	800	800	****	2	****	*	1700	2	1	****	C	
FEB 8.81	FEB 7.81	800	800	****	****	2	****	*	2476	2	1	****	CE	
FEB 9.81	FEB 8.81	800	800	****	****	2	****	*	1701	2	1	****	C	
FEB 10.81	FEB 9.81	800	800	****	****	2	****	*	1702	2	1	****	C	
FEB 11.81	FEB 10.81	800	800	1200	800	3	****	*	1703	2	1	****	C	
FEB 12.81	FEB 11.81	800	800	****	****	2	****	*	1704	2	1	****	C	
FEB 17.81	FEB 16.81	800	800	****	****	2	****	*	1705	2	1	****	C	
FEB 18.81	FEB 17.81	800	800	****	****	1	****	*	1706	2	1	****	C	
FEB 19.81	FEB 18.81	800	800	****	****	3	****	*	1707	2	1	****		
FEB 20.81	FEB 19.81	800	800	****	****	1	****	*	1708	2	1	****	D	
FEB 21.81	FEB 20.81	800	800	****	****	1	****	*	1709	2	1	****		
FEB 22.81	FEB 21.81	800	800	****	****	1	****	*	1710	2	1	****		
FEB 23.81	FEB 22.81	800	800	****	800	1	****	*	1711	2	1	****		
FEB 24.81	FEB 23.81	800	800	800	****	1	****	*	1712	2	1	****		
FEB 25.81	FEB 24.81	800	800	****	****	3	****	*	1713	2	1	****	C	
FEB 28.81	FEB 27.81	800	800	****	****	3	11.0	1	1714	2	1	89	C	
MAR 1.81	FEB 28.81	800	800	****	****	2	****	*	2477	2	1	****	CE	
MAR 2.81	MAR 1.81	800	800	****	****	2	1.0	2	1715	2	1	61	C	
MAR 3.81	MAR 2.81	800	800	****	****	2	****	*	1716	2	1	****	C	
MAR 5.81	MAR 4.81	800	800	****	****	2	1.5	2	1717	2	1	49		N
MAR 6.81	MAR 5.81	800	800	****	****	2	0.6	2	2478	2	1	29	CE	N
MAR 7.81	MAR 6.81	800	800	****	****	2	****	*	1718	2	1	****		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/SES #03 PAGE : 2

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 17.81	JAN 16.81	59.	*****	*****	3.84	******	1.09	1.93
JAN 19.81	JAN 18.81	47.	*****	*****	U 5.75	******	4.10	1.60
JAN 20.81	JAN 19.81	39.	*****	*****	4.47	******	15.60	5.50
JAN 21.81	JAN 20.81	10.	*****	*****	*****	******	*****	*****
JAN 22.81	JAN 21.81	35.	*****	*****	4.07	******	11.80	2.60
JAN 23.81	JAN 22.81	294.	15.6	*****	4.85	0.0424	2.35	0.27
JAN 24.81	JAN 23.81	36.	*****	*****	U 5.31	******	2.25	0.18
JAN 25.81	JAN 24.81	*****	*****	*****	*****	******	*****	*****
JAN 26.81	JAN 25.81	222.	49.6	*****	5.16	0.0618	9.25	1.52
JAN 27.81	JAN 26.81	75.	*****	*****	4.89	******	2.60	0.66
JAN 29.81	JAN 28.81	226.	33.2	*****	4.31	******	1.45	1.44
JAN 30.81	JAN 29.81	27.	*****	*****	*****	******	*****	*****
JAN 31.81	JAN 30.81	105.	*****	*****	U 7.12	******	3.10	0.56
FEB 2.81	FEB 1.81	1700.	26.8	4.26	4.25	0.0806	1.85	0.53
FEB 3.81	FEB 2.81	347.	18.6	*****	4.53	0.0570	U 0.75	0.62
FEB 4.81	FEB 3.81	62.	*****	*****	4.08	******	1.80	1.77
FEB 5.81	FEB 4.81	65.	*****	*****	4.66	******	1.65	0.80
FEB 6.81	FEB 5.81	71.	*****	*****	4.22	******	1.10	1.40
FEB 7.81	FEB 6.81	97.	*****	*****	4.05	******	3.05	1.67
FEB 8.81	FEB 7.81	32.	*****	*****	*****	******	*****	*****
FEB 9.81	FEB 8.81	98.	*****	*****	4.40	******	1.35	0.96
FEB 10.81	FEB 9.81	51.	*****	*****	4.79	******	2.25	1.17
FEB 11.81	FEB 10.81	4707.	21.0	4.38	4.38	0.0706	1.65	0.36
FEB 12.81	FEB 11.81	163.	*****	*****	5.21	******	1.60	0.56
FEB 17.81	FEB 16.81	220.	58.0	*****	3.97	******	5.25	0.97
FEB 18.81	FEB 17.81	51.	*****	*****	3.44	******	*****	*****
FEB 19.81	FEB 18.81	47.	*****	*****	3.73	******	28.50	6.00
FEB 20.81	FEB 19.81	169.	91.0	*****	3.96	******	12.00	1.74
FEB 21.81	FEB 20.81	32.	*****	*****	*****	******	11.80	2.50
FEB 22.81	FEB 21.81	82.	*****	*****	3.96	******	12.00	2.10
FEB 23.81	FEB 22.81	1841.	22.7	4.14	4.36	0.0704	1.95	0.37
FEB 24.81	FEB 23.81	1337.	U 15.8	4.34	4.52	0.0616	1.45	0.30
FEB 25.81	FEB 24.81	210.	*****	*****	U 6.45	******	3.70	0.84
FEB 28.81	FEB 27.81	1609.	45.0	3.82	4.12	0.1198	4.80	0.72
MAR 1.81	FEB 28.81	30.	*****	*****	*****	******	*****	*****
MAR 2.81	MAR 1.81	100.	*****	*****	U 6.04	******	6.55	1.27
MAR 3.81	MAR 2.81	64.	*****	*****	U 7.74	******	2.55	0.17
MAR 5.81	MAR 4.81	U 122.	*****	*****	4.48	******	4.05	1.37
MAR 6.81	MAR 5.81	U 29.	*****	*****	*****	******	*****	*****
MAR 7.81	MAR 6.81	57.	*****	*****	U 7.72	******	1.40	0.15

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/SES #03 PAGE : 3

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 17.81	JAN 16.81	0.30	0.90	0.050	0.030	0.250	*****	0.1445
JAN 19.81	JAN 18.81	*****	0.67	*****	*****	*****	*****	U 0.0018
JAN 20.81	JAN 19.81	*****	2.40	*****	*****	*****	*****	0.0339
JAN 21.81	JAN 20.81	*****	*****	*****	*****	*****	*****	******
JAN 22.81	JAN 21.81	*****	3.00	*****	*****	*****	*****	0.0851
JAN 23.81	JAN 22.81	0.16	0.17	0.035	0.030	0.090	0.630	0.0141
JAN 24.81	JAN 23.81	*****	0.23	*****	*****	*****	*****	U 0.0049
JAN 25.81	JAN 24.81	*****	*****	*****	*****	*****	*****	******
JAN 26.81	JAN 25.81	1.34	0.40	0.260	0.170	0.150	U 3.000	0.0069
JAN 27.81	JAN 26.81	0.20	0.31	0.090	0.020	0.140	*****	0.0129
JAN 29.81	JAN 28.81	0.58	0.54	0.130	0.040	0.200	0.800	0.0490
JAN 30.81	JAN 29.81	*****	*****	*****	*****	*****	*****	******
JAN 31.81	JAN 30.81	U 2.85	0.96	0.200	0.050	0.580	0.630	U 0.0001
FEB 2.81	FEB 1.81	0.11	0.14	0.010	0.020	0.020	0.318	0.0562
FEB 3.81	FEB 2.81	0.15	0.31	0.050	0.020	0.080	0.296	0.0295
FEB 4.81	FEB 3.81	1.41	2.20	*****	0.090	0.970	*****	0.0832
FEB 5.81	FEB 4.81	*****	0.67	*****	*****	*****	*****	0.0219
FEB 6.81	FEB 5.81	*****	0.72	*****	*****	*****	*****	0.0603
FEB 7.81	FEB 6.81	*****	1.06	*****	*****	*****	*****	0.0891
FEB 8.81	FEB 7.81	*****	*****	*****	*****	*****	*****	******
FEB 9.81	FEB 8.81	*****	0.54	*****	*****	*****	0.450	-0.0398
FEB 10.81	FEB 9.81	*****	1.28	*****	*****	*****	*****	0.0162
FEB 11.81	FEB 10.81	0.14	0.11	0.030	0.010	U 0.190	U 0.124	0.0417
FEB 12.81	FEB 11.81	0.36	0.60	0.145	0.240	0.480	0.370	0.0062
FEB 17.81	FEB 16.81	0.18	0.60	0.045	0.160	0.300	0.850	0.1072
FEB 18.81	FEB 17.81	*****	*****	*****	*****	*****	*****	0.3631
FEB 19.81	FEB 18.81	*****	6.30	*****	*****	*****	*****	0.1862
FEB 20.81	FEB 19.81	*****	0.96	0.065	U 0.570	0.590	3.050	0.1096
FEB 21.81	FEB 20.81	*****	0.86	*****	*****	*****	*****	******
FEB 22.81	FEB 21.81	*****	1.07	*****	*****	*****	3.750	0.1096
FEB 23.81	FEB 22.81	0.04	0.08	0.010	0.010	0.030	0.238	0.0437
FEB 24.81	FEB 23.81	0.05	0.04	0.005	0.020	0.020	0.262	0.0302
FEB 25.81	FEB 24.81	U 1.29	0.44	U 0.215	0.060	U 0.280	1.030	U 0.0004
FEB 28.81	FEB 27.81	0.66	0.28	0.110	0.040	0.140	0.510	0.0759
MAR 1.81	FEB 28.81	*****	*****	*****	*****	*****	*****	******
MAR 2.81	MAR 1.81	*****	0.27	*****	*****	*****	U 2.070	U 0.0009
MAR 3.81	MAR 2.81	*****	0.33	*****	*****	*****	0.500	U 0.0000
MAR 5.81	MAR 4.81	*****	0.57	*****	*****	*****	1.000	0.0331
MAR 6.81	MAR 5.81	*****	*****	*****	*****	*****	*****	******
MAR 7.81	MAR 6.81	*****	0.34	*****	*****	*****	*****	U 0.0000

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/SES #03

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
MAR 9.81	MAR 8.81	800	800	****	****	2	0.4	2	1719	2	1	158		N
MAR 10.81	MAR 9.81	800	800	****	****	2	1.2	2	1720	2	1	116		
MAR 11.81	MAR 10.81	800	800	****	****	2	1.2	2	1721	2	1	246		N
MAR 12.81	MAR 11.81	800	800	800	1000	2	1.6	2	1722	2	1	47	C	N
MAR 14.81	MAR 13.81	800	800	****	****	2	1.4	2	2479	2	1	5	CE	N
MAR 16.81	MAR 15.81	800	800	****	****	1	****	2	2480	2	1	****	CE	
MAR 17.81	MAR 16.81	800	800	****	1200	2	****	*	1723	2	1	****	C	M
MAR 18.81	MAR 17.81	800	800	****	****	2	****	*	1724	2	1	****	C	
MAR 19.81	MAR 18.81	800	800	****	****	2	0.8	2	1725	2	1	104		
MAR 20.81	MAR 19.81	800	800	****	****	2	0.6	2	1726	2	1	115		
MAR 21.81	MAR 20.81	800	800	****	****	2	4.4	2	1727	2	1	103		
MAR 25.81	MAR 24.81	800	800	****	****	3	****	*	1728	2	1	****	D	
MAR 27.81	MAR 26.81	800	800	****	****	1	12.6	2	1729	2	1	112		
MAR 28.81	MAR 27.81	800	800	****	****	1	****	*	2145	2	1	****	CDG	
MAR 30.81	MAR 29.81	800	800	****	800	1	7.4	2	1730	2	1	101	C	
MAR 31.81	MAR 30.81	800	800	800	****	1	7.4	2	1731	2	1	114		
APR 1.81	MAR 31.81	800	800	****	****	3	****	*	1732	2	1	****		
APR 2.81	APR 1.81	800	800	****	1000	1	****	*	1733	2	1	****	C	
APR 4.81	APR 3.81	800	800	****	****	1	2.4	2	2322	2	1	145	C	N
APR 5.81	APR 4.81	800	800	****	****	1	****	*	1734	2	1	****	C	
APR 6.81	APR 5.81	800	800	****	****	2	0.6	2	1735	2	1	56	C	
APR 9.81	APR 8.81	800	800	****	****	1	****	*	2019	2	1	****		
APR 11.81	APR 10.81	800	800	****	800	1	5.9	2	2020	2	1	100		M
APR 13.81	APR 12.81	800	800	****	****	1	****	*	2021	2	1	****	AC	
APR 14.81	APR 13.81	800	800	2400	800	1	18.4	2	2022	2	1	100	A	
APR 15.81	APR 14.81	800	800	****	****	1	0.8	2	2023	2	1	221		N
APR 16.81	APR 15.81	800	800	****	****	1	****	*	2147	2	1	****	G	X
APR 17.81	APR 16.81	800	900	2400	800	1	10.0	2	2024	2	1	101	A	
APR 23.81	APR 22.81	800	800	****	800	1	7.3	2	2025	2	1	108	A	M
APR 24.81	APR 23.81	800	800	****	****	1	4.5	2	2026	2	1	138		N
APR 25.81	APR 24.81	800	800	****	****	1	****	*	2027	2	1	****	C	
APR 28.81	APR 27.81	800	800	500	800	1	16.0	1	2028	2	1	50	C	CM
APR 29.81	APR 28.81	800	800	800	1000	1	5.4	1	2029	2	1	95	A	
NOV 17.81	NOV 16.81	800	800	900	1300	1	3.6	2	18379	2	1	122		NCM
NOV 19.81	NOV 18.81	800	800	****	****	1	0.4	2	18380	2	1	161		N
NOV 20.81	NOV 19.81	800	800	1900	800	1	12.0	2	18381	2	1	103	C	
NOV 21.81	NOV 20.81	800	800	800	800	3	12.0	2	18382	2	1	102		
NOV 22.81	NOV 21.81	800	800	800	800	3	****	2	18383	2	1	****		
NOV 27.81	NOV 26.81	800	800	****	****	1	****	2	18384	2	1	****	C	
NOV 29.81	NOV 28.81	800	800	****	****	1	****	2	18385	2	1	****	C	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/SES #03

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 UG/L	SULPHATE MG/L	NITRATE AS N MG/L
MAR 9.81	MAR 8.81	104.	*****	*****	U 5.96	******	1.65	0.25
MAR 10.81	MAR 9.81	230.	34.8	*****	5.94	0.0420	3.95	1.99
MAR 11.81	MAR 10.81	484.	33.0	4.35	4.37	0.0812	2.45	1.18
MAR 12.81	MAR 11.81	U 125.	*****	*****	U 6.42	******	2.15	0.51
MAR 14.81	MAR 13.81	U 13.	*****	*****	*****	******	*****	*****
MAR 16.81	MAR 15.81	17.	*****	*****	*****	******	*****	*****
MAR 17.81	MAR 16.81	332.	*****	*****	U 7.17	0.0220	0.50	0.49
MAR 18.81	MAR 17.81	110.	*****	*****	U 7.63	******	1.00	0.22
MAR 19.81	MAR 18.81	137.	*****	*****	6.80	******	0.90	0.23
MAR 20.81	MAR 19.81	114.	*****	*****	U 7.23	******	1.65	0.12
MAR 21.81	MAR 20.81	743.	15.8	4.79	U 4.82	0.0446	2.70	0.25
MAR 25.81	MAR 24.81	41.	*****	*****	U 7.18	******	12.20	0.20
MAR 27.81	MAR 26.81	2329.	26.5	4.46	4.51	0.0634	2.45	0.84
MAR 28.81	MAR 27.81	33.	*****	*****	*****	******	*****	*****
MAR 30.81	MAR 29.81	1226.	23.8	4.46	4.62	0.0656	4.00	0.40
MAR 31.81	MAR 30.81	1391.	15.8	4.54	4.76	0.0508	2.05	0.32
APR 1.81	MAR 31.81	16.	*****	*****	U 7.27	******	*****	*****
APR 2.81	APR 1.81	104.	*****	*****	4.86	******	11.00	1.50
APR 4.81	APR 3.81	571.	35.0	U 5.95	U 6.33	0.0398	8.00	1.15
APR 5.81	APR 4.81	76.	*****	*****	U 7.28	******	*****	*****
APR 6.81	APR 5.81	56.	*****	*****	U 6.17	******	*****	*****
APR 9.81	APR 8.81	337.	72.0	*****	U 7.27	0.0478	10.40	1.81
APR 11.81	APR 10.81	973.	14.4	4.83	4.76	0.0452	1.80	0.05
APR 13.81	APR 12.81	157.	*****	*****	U 6.83	******	6.21	0.80
APR 14.81	APR 13.81	3041.	27.9	4.25	4.24	0.0904	2.90	0.40
APR 15.81	APR 14.81	290.	23.4	*****	4.46	0.0670	3.15	0.43
APR 16.81	APR 15.81	*****	*****	*****	*****	******	*****	*****
APR 17.81	APR 16.81	1664.	39.7	4.21	4.19	0.1010	4.25	0.97
APR 23.81	APR 22.81	1302.	21.4	U 6.30	U 6.72	0.0242	3.80	0.64
APR 24.81	APR 23.81	1019.	48.5	4.09	4.11	0.1258	U 5.15	1.17
APR 25.81	APR 24.81	93.	*****	*****	U 5.51	******	2.70	0.39
APR 28.81	APR 27.81	1313.	65.5	6.99	U 7.50	0.0822	U 4.60	0.24
APR 29.81	APR 28.81	843.	75.5	3.82	3.78	0.1986	5.55	U 1.87
NOV 17.81	NOV 16.81	725.	5.6	6.03	U 6.10	0.0314	0.50	0.02
NOV 19.81	NOV 18.81	U 106.	*****	*****	U 5.78	******	3.20	0.72
NOV 20.81	NOV 19.81	2043.	30.8	4.23	4.24	0.0938	2.95	0.44
NOV 21.81	NOV 20.81	2025.	16.8	4.51	4.47	0.0648	1.10	0.39
NOV 22.81	NOV 21.81	114.	*****	*****	U 6.20	******	1.60	0.11
NOV 27.81	NOV 26.81	1493.	33.4	4.26	4.33	0.0850	4.25	0.56
NOV 29.81	NOV 28.81	20.	*****	*****	U 6.91	******	*****	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/SES #03

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
MAR 9.81	MAR 8.81	*****	0.15	*****	*****	*****	0.560	U 0.0011
MAR 10.81	MAR 9.81	1.33	0.46	0.270	0.090	0.210	U 2.300	0.0011
MAR 11.81	MAR 10.81	0.13	0.20	0.035	0.020	0.050	U 1.260	0.0427
MAR 12.81	MAR 11.81	0.51	0.33	0.110	0.170	0.280	0.870	U 0.0004
MAR 14.81	MAR 13.81	*****	*****	*****	*****	*****	*****	******
MAR 16.81	MAR 15.81	*****	*****	*****	*****	*****	*****	******
MAR 17.81	MAR 16.81	U 2.20	0.17	U 0.510	0.020	0.070	0.264	U 0.0001
MAR 18.81	MAR 17.81	*****	0.26	*****	*****	*****	0.282	U 0.0000
MAR 19.81	MAR 18.81	0.70	0.34	0.175	0.050	0.190	0.410	0.0002
MAR 20.81	MAR 19.81	U 1.65	0.34	U 0.430	0.040	0.220	0.600	U 0.0001
MAR 21.81	MAR 20.81	0.13	0.10	0.040	0.020	0.070	0.730	U 0.0151
MAR 25.81	MAR 24.81	*****	U 1.08	*****	*****	*****	*****	U 0.0001
MAR 27.81	MAR 26.81	0.74	0.21	0.115	0.030	0.070	0.610	0.0309
MAR 28.81	MAR 27.81	*****	*****	*****	*****	*****	*****	******
MAR 30.81	MAR 29.81	0.61	0.15	0.120	0.040	0.130	0.700	0.0240
MAR 31.81	MAR 30.81	0.30	0.08	0.040	0.030	0.040	0.480	0.0174
APR 1.81	MAR 31.81	*****	*****	*****	*****	*****	*****	U 0.0001
APR 2.81	APR 1.81	*****	0.73	*****	*****	*****	1.970	0.0138
APR 4.81	APR 3.81	U 2.95	0.60	U 0.405	0.220	0.370	1.310	U 0.0005
APR 5.81	APR 4.81	*****	*****	*****	*****	*****	1.350	U 0.0001
APR 6.81	APR 5.81	*****	*****	*****	*****	*****	0.900	U 0.0007
APR 9.81	APR 8.81	U 8.80	U 1.31	U 1.150	0.380	0.810	U 2.100	U 0.0001
APR 11.81	APR 10.81	0.57	0.12	0.065	0.040	0.140	0.400	0.0174
APR 13.81	APR 12.81	U 1.96	0.22	U 0.440	0.240	0.180	1.580	U 0.0001
APR 14.81	APR 13.81	0.13	0.13	0.030	0.040	0.100	0.300	0.0575
APR 15.81	APR 14.81	0.24	0.14	0.070	0.040	0.070	0.600	0.0347
APR 16.81	APR 15.81	*****	*****	*****	*****	*****	*****	******
APR 17.81	APR 16.81	0.78	0.23	0.150	0.040	0.110	0.620	0.0646
APR 23.81	APR 22.81	U 2.80	0.23	U 0.650	0.040	0.080	0.278	U 0.0002
APR 24.81	APR 23.81	0.53	0.24	0.085	0.050	0.060	U 1.200	0.0776
APR 25.81	APR 24.81	*****	0.19	*****	*****	*****	0.590	U 0.0031
APR 28.81	APR 27.81	0.92	0.86	0.200	U 1.750	0.700	U 6.000	U 0.0000
APR 29.81	APR 28.81	0.43	0.26	0.065	0.050	0.090	U 1.120	0.1660
NOV 17.81	NOV 16.81	0.11	0.12	0.025	0.010	0.020	0.396	U 0.0008
NOV 19.81	NOV 18.81	1.09	0.18	0.145	0.060	0.050	1.390	U 0.0017
NOV 20.81	NOV 19.81	0.26	0.18	0.025	0.010	0.080	0.372	0.0575
NOV 21.81	NOV 20.81	0.03	0.03	<T 0.005	0.010	0.010	0.246	0.0339
NOV 22.81	NOV 21.81	*****	0.14	*****	*****	*****	0.300	U 0.0006
NOV 27.81	NOV 26.81	0.91	0.38	0.180	0.020	0.280	0.420	0.0468
NOV 29.81	NOV 28.81	*****	*****	*****	*****	*****	*****	U 0.0001

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/SES #03

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
NOV 30.81	NOV 29.81	800	800	****	****	1	****	2	18386	2	1	****	C	
DEC 1.81	NOV 30.81	800	800	2000	800	3	4.0	2	18387	2	1	112	C	
DEC 2.81	DEC 1.81	800	800	****	****	1	6.8	2	18388	2	1	127	C	N
DEC 3.81	DEC 2.81	800	800	****	****	1	****	2	18389	2	1	****	D	
DEC 10.81	DEC 9.81	800	800	****	****	2	****	2	18393	2	1	****		
DEC 11.81	DEC 10.81	800	800	800	1600	2	****	2	18394	2	1	****	C	
DEC 12.81	DEC 11.81	800	800	****	****	2	****	2	18395	2	1	****	C	
DEC 15.81	DEC 14.81	800	800	****	****	2	0.6	2	18396	2	1	80	D	
DEC 16.81	DEC 15.81	800	800	****	****	2	****	2	18397	2	1	****	E	
DEC 17.81	DEC 16.81	800	800	****	****	2	1.0	2	18398	2	1	76	C	CM
DEC 19.81	DEC 18.81	800	800	****	****	2	2.6	2	18399	2	1	64	C	CM
DEC 21.81	DEC 20.81	800	800	****	****	2	****	*	18400	2	1	****	C	
DEC 23.81	DEC 22.81	800	800	****	****	2	16.2	2	18401	2	1	41		N
DEC 28.81	DEC 27.81	800	800	****	****	2	1.4	2	18402	2	1	92	C	
DEC 29.81	DEC 28.81	800	800	****	****	2	3.2	2	18403	2	1	81	C	
JAN 1.82	DEC 31.81	800	900	****	****	3	****	*	18404	2	1	****	C	N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/SES #03

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH4.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
NOV 30.81	NOV 29.81	34.	*****	*****	4.92	******	*****	*****
DEC 1.81	NOV 30.81	739.	7.8	*****	5.08	0.0552	1.00	0.10
DEC 2.81	DEC 1.81	1418.	26.1	4.17	4.27	0.0884	1.65	0.51
DEC 3.81	DEC 2.81	36.	*****	*****	4.31	******	*****	*****
DEC 10.81	DEC 9.81	5.	*****	*****	*****	******	*****	*****
DEC 11.81	DEC 10.81	19.	*****	*****	*****	******	*****	*****
DEC 12.81	DEC 11.81	27.	*****	*****	U 8.20	******	*****	*****
DEC 15.81	DEC 14.81	79.	*****	*****	U 5.45	******	5.65	2.04
DEC 16.81	DEC 15.81	5.	*****	*****	*****	******	*****	*****
DEC 17.81	DEC 16.81	126.	38.0	*****	U 7.46	******	U 1.20	0.32
DEC 19.81	DEC 18.81	274.	17.0	*****	U 6.92	0.0378	0.65	0.05
DEC 21.81	DEC 20.81	584.	8.5	*****	U 5.56	0.0580	1.00	0.35
DEC 23.81	DEC 22.81	U 1103.	8.1	*****	4.78	0.0574	0.60	0.13
DEC 28.81	DEC 27.81	212.	*****	*****	4.42	******	1.95	0.78
DEC 29.81	DEC 28.81	429.	15.3	*****	4.56	0.0720	0.70	0.46
JAN 1.82	DEC 31.81	986.	28.0	*****	4.36	0.0938	2.75	0.67

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/SES #03

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
NOV 30.81	NOV 29.81	*****	*****	*****	*****	*****	*****	0.0120
DEC 1.81	NOV 30.81	0.27	0.03	0.050	0.010	0.040	0.128	0.0083
DEC 2.81	DEC 1.81	0.13	0.06	0.005	0.010	0.020	0.268	0.0537
DEC 3.81	DEC 2.81	*****	*****	*****	*****	*****	*****	0.0490
DEC 10.81	DEC 9.81	*****	*****	*****	*****	*****	*****	******
DEC 11.81	DEC 10.81	*****	*****	*****	*****	*****	*****	******
DEC 12.81	DEC 11.81	*****	*****	*****	*****	*****	*****	U 0.0000
DEC 15.81	DEC 14.81	*****	U 1.35	*****	*****	*****	1.690	U 0.0035
DEC 16.81	DEC 15.81	*****	*****	*****	*****	*****	*****	******
DEC 17.81	DEC 16.81	U 5.60	0.48	U 0.900	0.070	0.230	0.490	U 0.0000
DEC 19.81	DEC 18.81	U 1.76	0.30	U 0.380	0.050	0.170	0.192	U 0.0001
DEC 21.81	DEC 20.81	0.63	0.24	0.110	0.070	0.120	0.014	U 0.0028
DEC 23.81	DEC 22.81	0.05	0.11	<T 0.005	0.030	0.030	0.080	0.0166
DEC 28.81	DEC 27.81	0.86	0.68	0.090	0.070	0.100	0.184	0.0380
DEC 29.81	DEC 28.81	0.08	0.20	0.010	0.030	0.060	0.268	0.0275
JAN 1.82	DEC 31.81	0.50	0.39	0.060	0.060	0.220	0.400	0.0437

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM #04 PAGE : 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
MAY 8.81	MAY 7.81	1100	1430	1345	1445	1	****	•	18603	2	1	****		N
MAY 9.81	MAY 8.81	1430	1215	****	****	1	****	•	18604	2	1	****		
MAY 11.81	MAY 10.81	715	530	2300	300	1	18.4	1	18605	2	1	95		
MAY 12.81	MAY 11.81	530	530	****	****	1	3.3	1	18606	2	1	73		
MAY 15.81	MAY 14.81	530	530	1400	1700	1	3.3	1	18607	2	1	77	C	
MAY 16.81	MAY 15.81	530	900	****	****	1	6.3	1	18608	2	1	107		
MAY 26.81	MAY 25.81	500	500	530	630	1	2.0	1	18609	2	1	76	AC	
MAY 27.81	MAY 26.81	500	500	530	700	1	3.8	1	18610	2	1	94	C	
MAY 28.81	MAY 27.81	500	530	1000	1400	1	3.7	1	18611	2	1	74		
MAY 30.81	MAY 29.81	530	800	600	700	1	0.4	1	18612	2	1	****	E	
MAY 31.81	MAY 30.81	800	800	800	1000	1	0.6	1	18613	2	1	88	C	
JUN 3.81	JUN 2.81	530	530	230	400	1	5.9	1	18614	2	1	106	AC	
JUN 9.81	JUN 8.81	530	530	****	****	1	0.4	1	18615	2	1	163		N
JUN 9.81	JUN 8.81	530	530	****	****	1	1.4	1	18616	2	1	81	A	
JUN 11.81	JUN 10.81	530	530	****	****	1	****	1	18617	2	1	****		
JUN 14.81	JUN 13.81	800	730	****	****	1	12.4	1	18618	2	1	98		
JUN 17.81	JUN 16.81	530	530	1530	1630	1	6.4	1	18619	2	1	91	A	
JUN 21.81	JUN 20.81	1130	1130	****	****	1	13.2	1	18620	2	1	100	C	
JUN 22.81	JUN 21.81	1130	530	****	****	1	21.5	1	18621	2	1	101	AC	
JUN 23.81	JUN 22.81	530	530	530	800	1	5.4	1	18622	2	1	82		
JUL 1.81	JUN 30.81	530	800	****	****	1	2.5	1	18623	2	1	88		
JUL 9.81	JUL 8.81	800	1030	****	****	1	4.2	1	18624	2	1	****	E	
JUL 18.81	JUL 17.81	530	830	****	****	1	2.1	1	18625	2	1	84	C	
JUL 19.81	JUL 18.81	830	830	****	****	1	10.1	1	18626	2	1	95		
JUL 20.81	JUL 19.81	830	530	****	****	1	1.6	1	18627	2	1	39		N
JUL 26.81	JUL 25.81	800	1030	430	1030	1	1.1	1	18628	2	1	66		
JUL 27.81	JUL 26.81	1030	530	****	****	1	3.8	1	18629	2	1	90		
JUL 28.81	JUL 27.81	530	530	****	****	1	0.6	1	18630	2	1	127		N
JUL 29.81	JUL 28.81	530	530	530	2000	1	37.5	1	18631	2	1	101		C
AUG 3.81	AUG 2.81	800	900	530	900	1	2.4	1	18632	2	1	74		
AUG 5.81	AUG 4.81	530	530	1300	2000	1	18.6	1	18633	2	1	106		
AUG 9.81	AUG 8.81	530	800	****	****	1	2.0	1	18634	2	1	170	L	N
AUG 12.81	AUG 11.81	530	530	1400	530	1	2.6	1	18635	2	1	78		
AUG 15.81	AUG 14.81	530	745	****	****	1	11.6	1	18636	2	1	88	C	
AUG 16.81	AUG 15.81	745	800	****	****	1	5.4	1	18637	2	1	88	C	
AUG 28.81	AUG 27.81	530	530	****	****	1	7.1	1	18638	2	1	90		
AUG 29.81	AUG 28.81	530	1100	****	****	1	9.8	1	18639	2	1	91	C	
AUG 30.81	AUG 29.81	1100	1230	****	****	1	27.0	1	18640	2	1	94	AC	
AUG 31.81	AUG 30.81	1230	530	****	****	1	52.7	1	18641	2	1	103	A	
SEP 2.81	SEP 1.81	530	530	1830	200	1	24.5	1	18642	2	1	90	C	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM #04

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
MAY 8.81	MAY 7.81	273.	81.5	*****	3.83	0.2032	9.25	1.80
MAY 9.81	MAY 8.81	42.	*****	*****	4.04	******	*****	*****
MAY 11.81	MAY 10.81	1130.	49.0	4.00	4.03	0.1296	4.55	0.63
MAY 12.81	MAY 11.81	156.	*****	*****	4.04	******	4.55	0.57
MAY 15.81	MAY 14.81	163.	*****	*****	5.27	******	3.60	0.48
MAY 16.81	MAY 15.81	435.	75.5	3.79	3.86	0.1950	7.60	0.92
MAY 26.81	MAY 25.81	98.	*****	*****	6.35	******	7.00	1.25
MAY 27.81	MAY 26.81	230.	*****	*****	4.50	0.0724	5.00	1.35
MAY 28.81	MAY 27.81	177.	*****	*****	3.92	******	8.95	1.34
MAY 30.81	MAY 29.81	*****	*****	*****	*****	******	*****	*****
MAY 31.81	MAY 30.81	34.	*****	*****	4.46	******	7.80	1.34
JUN 3.81	JUN 2.81	403.	78.5	*****	3.77	0.2076	8.40	1.03
JUN 9.81	JUN 8.81	42.	*****	*****	4.50	******	6.45	0.78
JUN 9.81	JUN 8.81	73.	*****	*****	U 6.56	******	1.25	0.22
JUN 11.81	JUN 10.81	115.	*****	*****	4.08	******	5.25	1.09
JUN 14.81	JUN 13.81	779.	18.8	*****	4.37	0.0698	2.10	0.18
JUN 17.81	JUN 16.81	377.	26.5	*****	4.36	0.0764	3.25	0.62
JUN 21.81	JUN 20.81	851.	34.5	*****	4.14	0.1028	3.80	0.47
JUN 22.81	JUN 21.81	1392.	20.4	*****	4.42	0.0660	2.10	0.39
JUN 23.81	JUN 22.81	286.	22.5	*****	4.35	0.0706	2.45	0.31
JUL 1.81	JUN 30.81	142.	*****	*****	4.44	******	2.30	0.36
JUL 9.81	JUL 8.81	*****	*****	*****	*****	******	*****	*****
JUL 18.81	JUL 17.81	114.	*****	*****	U 6.19	******	5.15	0.98
JUL 19.81	JUL 18.81	618.	75.0	*****	3.87	0.1746	7.80	1.05
JUL 20.81	JUL 19.81	U 41.	*****	*****	3.97	******	4.35	0.32
JUL 26.81	JUL 25.81	47.	*****	*****	3.63	******	10.20	1.05
JUL 27.81	JUL 26.81	220.	*****	*****	3.56	******	13.50	0.63
JUL 28.81	JUL 27.81	49.	*****	*****	4.06	******	4.25	0.42
JUL 29.81	JUL 28.81	2446.	U 15.0	*****	4.16	0.0964	2.65	0.24
AUG 3.81	AUG 2.81	115.	*****	*****	4.09	******	3.65	0.70
AUG 5.81	AUG 4.81	1268.	43.6	*****	4.12	0.1124	5.35	0.78
AUG 9.81	AUG 8.81	218.	*****	*****	4.77	0.0482	1.90	0.37
AUG 12.81	AUG 11.81	131.	*****	*****	4.02	******	6.30	0.75
AUG 15.81	AUG 14.81	660.	61.5	*****	3.92	0.1600	5.90	0.72
AUG 16.81	AUG 15.81	307.	71.0	*****	3.83	0.1800	6.95	0.80
AUG 28.81	AUG 27.81	410.	124.0	*****	3.58	0.3092	12.50	1.15
AUG 29.81	AUG 28.81	575.	111.0	*****	3.63	0.2894	9.95	1.19
AUG 30.81	AUG 29.81	1633.	50.0	*****	4.01	0.1286	4.95	0.46
AUG 31.81	AUG 30.81	3496.	20.2	*****	4.46	0.0624	2.15	0.19
SEP 2.81	SEP 1.81	1421.	47.0	3.99	3.95	0.1304	4.60	0.47

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM #04

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
MAY 8.81	MAY 7.81	0.40	0.22	0.055	0.030	0.100	1.200	0.1479
MAY 9.81	MAY 8.81	*****	*****	*****	*****	*****	*****	0.0912
MAY 11.81	MAY 10.81	0.15	0.25	0.350	0.020	0.110	0.500	0.0933
MAY 12.81	MAY 11.81	0.14	0.99	0.030	0.050	0.140	0.780	0.0912
MAY 15.81	MAY 14.81	0.67	0.25	0.225	0.040	0.090	0.870	0.0054
MAY 16.81	MAY 15.81	0.17	0.23	0.040	0.030	0.040	0.820	0.1380
MAY 26.81	MAY 25.81	*****	0.28	*****	*****	*****	2.000	0.0004
MAY 27.81	MAY 26.81	1.11	0.26	0.260	0.040	0.030	1.370	0.0316
MAY 28.81	MAY 27.81	0.71	0.32	0.170	0.040	0.040	U 1.560	0.1202
MAY 30.81	MAY 29.81	*****	*****	*****	*****	*****	*****	******
MAY 31.81	MAY 30.81	*****	0.37	*****	*****	*****	*****	0.0347
JUN 3.81	JUN 2.81	0.46	0.24	0.140	0.030	0.040	0.740	0.1698
JUN 9.81	JUN 8.81	*****	0.29	*****	*****	*****	*****	0.0316
JUN 9.81	JUN 8.81	*****	0.13	*****	*****	*****	0.650	U 0.0003
JUN 11.81	JUN 10.81	0.32	0.22	0.080	*****	0.100	1.260	0.0832
JUN 14.81	JUN 13.81	0.10	0.02	0.030	0.010	0.010	0.130	0.0427
JUN 17.81	JUN 16.81	0.61	0.25	0.120	0.050	0.110	0.500	0.0437
JUN 21.81	JUN 20.81	0.24	0.04	0.065	0.020	0.020	0.440	0.0724
JUN 22.81	JUN 21.81	0.08	0.05	0.010	<T 0.010	0.010	0.380	0.0380
JUN 23.81	JUN 22.81	0.07	0.02	0.025	0.010	0.020	0.410	0.0447
JUL 1.81	JUN 30.81	0.08	0.09	0.040	0.030	0.020	0.420	0.0363
JUL 9.81	JUL 8.81	*****	*****	*****	*****	*****	*****	******
JUL 18.81	JUL 17.81	U 2.20	0.33	U 0.475	0.090	0.110	0.630	U 0.0006
JUL 19.81	JUL 18.81	0.65	0.20	0.155	0.040	0.050	0.970	0.1349
JUL 20.81	JUL 19.81	*****	0.10	*****	*****	*****	*****	0.1072
JUL 26.81	JUL 25.81	*****	0.26	*****	*****	*****	*****	0.2344
JUL 27.81	JUL 26.81	0.12	0.14	0.020	0.020	0.030	1.060	0.2754
JUL 28.81	JUL 27.81	*****	0.15	*****	*****	*****	*****	0.0871
JUL 29.81	JUL 28.81	0.03	0.06	0.005	<T 0.010	0.010	0.150	0.0692
AUG 3.81	AUG 2.81	0.60	0.32	0.080	0.030	0.260	0.232	0.0813
AUG 5.81	AUG 4.81	0.64	0.19	0.105	0.030	0.020	0.760	0.0759
AUG 9.81	AUG 8.81	0.22	0.10	0.050	0.020	0.010	0.540	0.0170
AUG 12.81	AUG 11.81	0.58	0.26	0.130	0.060	0.060	0.710	0.0955
AUG 15.81	AUG 14.81	0.34	0.16	0.060	0.030	0.010	0.420	0.1202
AUG 16.81	AUG 15.81	0.22	0.19	0.025	0.040	0.010	0.640	0.1479
AUG 28.81	AUG 27.81	0.24	0.31	0.035	0.040	0.030	0.880	0.2630
AUG 29.81	AUG 28.81	0.28	0.30	0.035	0.020	0.030	0.530	0.2344
AUG 30.81	AUG 29.81	0.16	0.15	0.020	0.020	0.010	0.430	0.0977
AUG 31.81	AUG 30.81	0.07	0.08	0.010	0.030	0.010	0.328	0.0347
SEP 2.81	SEP 1.81	0.16	0.10	0.025	0.020	0.020	0.252	0.1122

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM #04 PAGE : 4

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
SEP 4.81	SEP 3.81	530	530	700	530	1	57.2	1	18643	2	1	104	C	
SEP 5.81	SEP 4.81	530	530	****	****	1	7.4	1	18644	2	1	64	C	
SEP 9.81	SEP 8.81	530	530	2400	200	1	0.9	1	18645	2	1	62		
SEP 17.81	SEP 16.81	530	530	100	400	1	2.3	1	18646	2	1	65		
SEP 18.81	SEP 17.81	530	530	****	****	1	6.4	1	18647	2	1	88		
SEP 22.81	SEP 21.81	530	530	1400	2000	1	17.0	1	18648	2	1	99		
SEP 26.81	SEP 25.81	530	730	2200	730	1	4.1	1	18649	2	1	71		
SEP 27.81	SEP 26.81	730	630	730	2300	1	3.1	1	18650	2	1	89		
SEP 28.81	SEP 27.81	630	****	****	****	1	0.6	1	18651	2	1	****	CE	
OCT 1.81	SEP 30.81	530	****	****	****	1	6.2	1	18652	2	1	29	C	N
OCT 2.81	OCT 1.81	530	530	****	****	1	20.4	1	18653	2	1	101		C
OCT 6.81	OCT 5.81	530	630	430	630	1	8.4	1	18654	2	1	97		
OCT 7.81	OCT 6.81	630	530	630	1100	1	8.1	1	18655	2	1	66	A	
OCT 14.81	OCT 13.81	430	530	****	****	1	4.8	1	18656	2	1	****	EF	
OCT 18.81	OCT 17.81	530	830	30	630	1	15.7	1	18657	2	1	80		
OCT 19.81	OCT 18.81	830	530	1500	530	3	7.4	1	18658	2	1	62	D	C
OCT 20.81	OCT 19.81	530	530	****	****	3	2.2	1	18659	2	1	24		N
OCT 21.81	OCT 20.81	530	530	300	530	1	0.5	1	18660	2	1	112		
OCT 22.81	OCT 21.81	530	530	****	****	3	12.1	1	18661	2	1	86	C	
OCT 23.81	OCT 22.81	530	530	1000	2400	3	14.6	1	18662	2	1	100	C	
OCT 24.81	OCT 23.81	530	730	****	****	3	2.9	1	18663	2	1	45	C	N
OCT 28.81	OCT 27.81	530	530	530	1800	1	21.4	1	18664	2	1	99		
NOV 6.81	NOV 5.81	530	530	2300	400	1	2.8	1	18665	2	1	52	C	
NOV 17.81	NOV 16.81	530	530	1700	100	1	2.6	1	18666	2	1	98		N
NOV 20.81	NOV 19.81	530	530	700	400	1	13.6	1	18667	2	1	100		
NOV 22.81	NOV 21.81	530	530	****	****	1	9.5	1	18668	2	1	85		
NOV 27.81	NOV 26.81	530	530	****	****	1	8.3	1	18669	2	1	95	C	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM #04

REMOVAL DATE	EXPOSURE DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
SEP 4.81	SEP 3.81		3837.	25.0	4.27	4.24	0.0790	1.95	0.28
SEP 5.81	SEP 4.81		304.	25.7	4.28	4.20	0.0980	2.85	0.28
SEP 9.81	SEP 8.81		36.	*****	*****	4.16	******	4.90	0.68
SEP 17.81	SEP 16.81		96.	*****	*****	5.20	******	1.10	0.23
SEP 18.81	SEP 17.81		364.	26.2	4.16	4.22	0.0870	2.65	0.27
SEP 22.81	SEP 21.81		1086.	16.7	4.40	4.56	0.0550	1.80	0.24
SEP 26.81	SEP 25.81		189.	*****	*****	4.01	******	7.05	0.90
SEP 27.81	SEP 26.81		177.	*****	*****	3.96	******	6.15	0.76
SEP 28.81	SEP 27.81		*****	*****	*****	*****	******	*****	*****
OCT 1.81	SEP 30.81	U	117.	*****	*****	4.40	******	1.85	0.15
OCT 2.81	OCT 1.81		1333.	18.8	3.99	4.52	0.0626	1.85	0.14
OCT 6.81	OCT 5.81		526.	45.4	4.35	4.11	0.1160	4.05	0.66
OCT 7.81	OCT 6.81		346.	31.1	*****	4.17	0.0950	2.50	0,62
OCT 14.81	OCT 13.81		*****	*****	*****	*****	******	*****	*****
OCT 18.81	OCT 17.81		812.	21.2	4.36	4.38	0.0752	1.70	0.24
OCT 19.81	OCT 18.81		295.	4.8	*****	5.74	0.0288	0.60	0,05
OCT 20.81	OCT 19.81	U	34.	*****	*****	5.52	******	*****	*****
OCT 21.81	OCT 20.81		36.	*****	*****	4.19	******	*****	*****
OCT 22.81	OCT 21.81		670.	31.8	4.19	4.23	0.0908	2.80	0.52
OCT 23.81	OCT 22.81		936.	16.0	4.54	4.45	0.0644	1.35	0.22
OCT 24.81	OCT 23.81	U	85.	*****	*****	4.03	******	*****	*****
OCT 28.81	OCT 27.81		1367.	10.4	4.71	4.73	0.0436	1.15	0.08
NOV 6.81	NOV 5.81		95.	*****	*****	4.18	******	3.40	1.20
NOV 17.81	NOV 16.81		165.	*****	*****	5.94	******	0.20	0.81
NOV 20.81	NOV 19.81		877.	25.6	*****	4.30	0.0860	2.25	0.36
NOV 22.81	NOV 21.81		520.	19.8	*****	4.42	0.0764	1.50	0.42
NOV 27.81	NOV 26.81		508.	30.5	*****	4.25	0.0872	3.50	0.36

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM #04

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
SEP 4.81	SEP 3.81	0.05	0.06	<T 0.005	0.020	0.020	0.132	0.0575
SEP 5.81	SEP 4.81	0.14	0.19	0.005	0.040	0.240	0.068	0.0631
SEP 9.81	SEP 8.81	*****	0.26	*****	*****	*****	*****	0.0692
SEP 17.81	SEP 16.81	0.37	0.04	0.060	0.010	0.010	0.280	0.0063
SEP 18.81	SEP 17.81	0.12	0.01	0.025	0.020	0.010	0.298	0.0603
SEP 22.81	SEP 21.81	0.05	0.01	0.020	0.010	0.010	0.388	0.0275
SEP 26.81	SEP 25.81	0.70	0.18	0.110	0.020	0.050	0.960	0.0977
SEP 27.81	SEP 26.81	0.77	0.20	0.075	0.030	0.080	0.278	0.1096
SEP 28.81	SEP 27.81	*****	*****	*****	*****	*****	*****	******
OCT 1.81	SEP 30.81	0.07	<T 0.01	0.015	<T 0.010	0.020	0.046	0.0398
OCT 2.81	OCT 1.81	0.04	<T 0.01	<T 0.005	0.010	0.020	0.122	0.0302
OCT 6.81	OCT 5.81	0.22	0.12	0.040	0.020	0.050	0.640	0.0776
OCT 7.81	OCT 6.81	0.10	0.08	0.010	0.010	0.020	0.520	0.0676
OCT 14.81	OCT 13.81	*****	*****	*****	*****	*****	*****	******
OCT 18.81	OCT 17.81	0.08	0.03	0.005	<T 0.010	0.010	0.124	0.0501
OCT 19.81	OCT 18.81	0.09	<T 0.01	0.015	0.010	<T 0.010	0.226	0.0018
OCT 20.81	OCT 19.81	*****	*****	*****	*****	*****	*****	U 0.0030
OCT 21.81	OCT 20.81	*****	*****	*****	*****	*****	*****	0.0646
OCT 22.81	OCT 21.81	0.10	0.08	0.025	0.020	0.020	0.450	0.0589
OCT 23.81	OCT 22.81	0.08	U 0.87	0.025	0.020	0.040	0.148	0.0355
OCT 24.81	OCT 23.81	*****	*****	*****	*****	*****	0.248	0.0933
OCT 28.81	OCT 27.81	0.04	<T 0.01	0.020	0.010	<T 0.010	0.128	0.0186
NOV 6.81	NOV 5.81	*****	0.28	*****	*****	*****	0.970	0.0661
NOV 17.81	NOV 16.81	0.09	<T 0.01	0.010	0.010	0.050	0.150	U 0.0011
NOV 20.81	NOV 19.81	0.13	0.05	0.010	0.010	0.040	0.326	0.0501
NOV 22.81	NOV 21.81	0.10	0.03	0.005	0.010	0.040	0.268	0.0380
NOV 27.81	NOV 26.81	0.26	0.20	0.035	0.020	0.160	0.300	0.0562

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/SES #04

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
									328	2	1	****		L
									329	2	1	****		L
									330	2	1	****		X
									331	2	1	****		X
									1736	2	1	****	CD	
									2481	2	1	****	CE	
									2148	2	1	****	G	X
									2482	2	1	****	CE	
									1737	2	1	****	C	
									1738	2	1	****	C	
									1739	2	1	****	CD	
									1740	2	1	****	CD	
									1741	2	1	****		
									2146	2	1	****	C	
									1742	2	1	****	C	
									1743	2	1	****		
									1744	2	1	****		
									1745	2	1	****	C	
									1746	2	1	100	C	
									2483	2	1	****	CDE	
									1747	2	1	80		
									2484	2	1	42	E	N
									1748	2	1	69		
									1749	2	1	96	D	
									1750	2	1	64		CM
									1751	2	1	40	CD	N
									1752	2	1	22		N
									1753	2	1	51		
									1754	2	1	106		
									1755	2	1	110	C	
									1756	2	1	99	AC	
									1757	2	1	65		
									1758	2	1	****	C	
									2324	2	1	229	C	N
									1759	2	1	131	AC	N
									2323	2	1	****		
									1760	2	1	****	AC	
									2030	2	1	106		
									2031	2	1	106	A	Z
									2032	2	1	147		N
JAN 28.81	JAN 27.81	1945	1730	1530	1700	2	****	*						
JAN 29.81	JAN 28.81	1730	1730	****	****	2	****	*						
FEB 1.81	JAN 31.81	1700	1600	600	1430	2	****	*						
FEB 2.81	FEB 1.81	1600	1600	****	****	2	****	*						
FEB 3.81	FEB 2.81	1600	1700	****	****	2	****	*						
FEB 4.81	FEB 3.81	1700	1715	****	****	2	****	*						
FEB 6.81	FEB 5.81	1600	1600	****	****	2	****	*						
FEB 8.81	FEB 7.81	1600	1800	****	****	2	****	*						
FEB 9.81	FEB 8.81	1800	1700	****	****	2	****	*						
FEB 10.81	FEB 9.81	1700	1730	1030	1730	2	****	*						
FEB 11.81	FEB 10.81	1730	1700	1730	****	3	****	*						
FEB 12.81	FEB 11.81	1700	1700	****	****	2	****	*						
FEB 16.81	FEB 15.81	1230	1600	1100	1500	1	****	*						
FEB 18.81	FEB 17.81	1700	1700	****	****	1	****	*						
FEB 20.81	FEB 19.81	1700	1700	****	****	1	****	*						
FEB 23.81	FEB 22.81	1300	1530	330	1500	1	****	*						
FEB 24.81	FEB 23.81	1530	1700	700	****	1	****	*						
FEB 25.81	FEB 24.81	1750	1700	****	****	1	10.0	1						
FEB 28.81	FEB 27.81	1630	1600	215	530	2	****	*						
MAR 1.81	FEB 28.81	1600	1400	****	****	2	0.8	1						
MAR 2.81	MAR 1.81	1400	1700	****	****	2	0.3	2						
MAR 3.81	MAR 2.81	1700	1700	****	****	2	0.7	1						
MAR 4.81	MAR 3.81	1700	1700	200	****	2	0.4	1						
MAR 9.81	MAR 8.81	1230	1630	****	500	2	4.4	2						
MAR 11.81	MAR 10.81	1700	1730	200	800	2	2.2	2						
MAR 17.81	MAR 16.81	1700	1700	****	****	2	1.2	2						
MAR 18.81	MAR 17.81	1700	1730	****	****	2	5.2	2						
MAR 20.81	MAR 19.81	1400	1600	1700	100	2	5.8	2						
MAR 26.81	MAR 25.81	1700	1700	1300	1600	3	2.6	2						
MAR 27.81	MAR 26.81	1700	900	1800	300	1	17.8	2						
MAR 30.81	MAR 29.81	1200	1630	100	1030	1	0.6	2						
MAR 31.81	MAR 30.81	1700	1700	1900	****	1	****	*						
APR 1.81	MAR 31.81	1700	1700	****	300	1	1.6	2						
APR 4.81	APR 3.81	1700	1630	****	****	1	1.5	2						
APR 9.81	APR 8.81	1700	1400	100	700	1	****	*						
APR 11.81	APR 10.81	1700	1600	****	****	1	****	*						
APR 12.81	APR 11.81	1600	1100	****	1100	3	16.6	2						
APR 14.81	APR 13.81	1600	1800	****	****	1	9.2	2						
APR 17.81	APR 15.81	1700	1630	2000	800	1	2.2	2						
APR 18.81	APR 17.81	1630	1800	100	500	1								

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/SES #04

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 UG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 28.81	JAN 27.81	181.	22.7	*****	4.79	******	2.20	0.93
JAN 29.81	JAN 28.81	67.	*****	*****	4.51	******	2.50	2.30
FEB 1.81	JAN 31.81	447.	*****	4.80	*****	******	*****	*****
FEB 2.81	FEB 1.81	690.	*****	4.27	*****	******	*****	*****
FEB 3.81	FEB 2.81	75.	*****	*****	4.83	******	1.55	0.76
FEB 4.81	FEB 3.81	39.	*****	*****	*****	******	*****	*****
FEB 6.81	FEB 5.81	*****	*****	*****	*****	******	*****	*****
FEB 8.81	FEB 7.81	28.	*****	*****	*****	******	*****	*****
FEB 9.81	FEB 8.81	49.	*****	*****	4.40	******	3.10	1.52
FEB 10.81	FEB 9.81	961.	11.8	4.71	4.70	0.0460	0.75	0.30
FEB 11.81	FEB 10.81	3066.	24.8	4.30	4.29	0.0824	1.85	0.44
FEB 12.81	FEB 11.81	48.	*****	*****	U 7.13	******	2.65	0.90
FEB 16.81	FEB 15.81	393.	38.3	4.29	4.25	0.0956	4.70	0.74
FEB 18.81	FEB 17.81	12.	*****	*****	*****	******	*****	*****
FEB 20.81	FEB 19.81	220.	106.0	*****	4.07	******	17.00	3.00
FEB 23.81	FEB 22.81	3195.	23.9	4.21	4.40	0.0708	2.30	0.36
FEB 24.81	FEB 23.81	202.	31.2	*****	4.39	******	3.90	0.86
FEB 25.81	FEB 24.81	342.	U 41.5	*****	4.39	0.0864	5.35	1.31
FEB 28.81	FEB 27.81	1650.	40.0	3.85	4.19	0.1048	4.55	0.70
MAR 1.81	FEB 28.81	28.	*****	*****	*****	******	*****	*****
MAR 2.81	MAR 1.81	106.	*****	*****	U 7.26	******	7.10	1.21
MAR 3.81	MAR 2.81	U 21.	*****	*****	*****	******	*****	*****
MAR 4.81	MAR 3.81	80.	*****	*****	U 7.08	******	7.15	1.70
MAR 9.81	MAR 8.81	63.	*****	*****	U 7.16	******	5.15	0.85
MAR 11.81	MAR 10.81	465.	27.5	U 5.48	U 5.98	0.0380	3.45	1.38
MAR 17.81	MAR 16.81	U 146.	*****	*****	U 7.36	******	0.85	0.62
MAR 18.81	MAR 17.81	U 44.	*****	*****	U 7.31	******	1.90	0.42
MAR 20.81	MAR 19.81	441.	17.5	4.77	4.88	0.0464	2.90	0.29
MAR 26.81	MAR 25.81	1016.	27.8	4.63	4.61	0.0658	3.30	0.91
MAR 27.81	MAR 26.81	470.	50.0	4.04	4.06	0.1264	3.00	1.51
MAR 30.81	MAR 29.81	2889.	19.5	4.57	4.71	0.0516	2.80	0.32
MAR 31.81	MAR 30.81	64.	*****	*****	U 6.48	******	6.95	1.09
APR 1.81	MAR 31.81	83.	*****	*****	U 6.95	******	13.80	2.70
APR 4.81	APR 3.81	603.	38.7	U 4.70	U 5.58	0.0530	9.10	1.08
APR 9.81	APR 8.81	324.	49.5	*****	U 6.96	0.0432	9.10	1.52
APR 11.81	APR 10.81	399.	12.5	4.72	4.94	0.0430	2.15	0.46
APR 12.81	APR 11.81	18.	*****	*****	U 7.30	******	*****	*****
APR 14.81	APR 13.81	2910.	29.2	4.25	4.28	0.0848	2.95	0.41
APR 17.81	APR 15.81	1613.	22.0	U 5.06	U 5.87	0.0312	4.05	0.81
APR 18.81	APR 17.81	532.	25.5	*****	5.21	0.0484	U 4.15	0.96

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/SES #04 PAGE : 3

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 28.81	JAN 27.81	0.65	0.77	0.220	0.080	0.390	0.790	0.0162
JAN 29.81	JAN 28.81	0.57	1.00	0.160	0.040	0.510	*****	0.0309
FEB 1.81	JAN 31.81	*****	*****	*****	*****	*****	*****	******
FEB 2.81	FEB 1.81	*****	*****	*****	*****	*****	*****	******
FEB 3.81	FEB 2.81	*****	1.26	*****	*****	*****	*****	******
FEB 4.81	FEB 3.81	*****	*****	*****	*****	*****	*****	0.0148
FEB 6.81	FEB 5.81	*****	*****	*****	*****	*****	*****	******
FEB 8.81	FEB 7.81	*****	*****	*****	*****	*****	*****	******
FEB 9.81	FEB 8.81	*****	2.05	*****	*****	*****	*****	******
FEB 10.81	FEB 9.81	0.14	0.11	0.040	0.010	0.070	0.126	0.0398
FEB 11.81	FEB 10.81	0.04	0.10	0.030	0.010	0.070	0.174	0.0200
FEB 12.81	FEB 11.81	*****	U 6.50	*****	*****	*****	*****	0.0513
FEB 16.81	FEB 15.81	0.56	0.53	0.080	0.060	0.400	0.860	U 0.0001
FEB 18.81	FEB 17.81	*****	*****	*****	*****	*****	*****	0.0562
FEB 20.81	FEB 19.81	0.72	0.78	U 0.215	0.120	0.360	5.650	******
FEB 23.81	FEB 22.81	0.06	0.08	0.020	0.020	0.040	U 0.430	0.0851
FEB 24.81	FEB 23.81	0.61	0.20	0.155	0.070	0.220	0.660	0.0398
FEB 25.81	FEB 24.81	1.20	0.53	0.240	0.040	0.190	1.290	0.0407
FEB 28.81	FEB 27.81	0.68	0.28	0.155	0.020	0.120	0.550	0.0407
MAR 1.81	FEB 28.81	*****	*****	*****	*****	*****	*****	0.0646
MAR 2.81	MAR 1.81	*****	0.30	*****	*****	*****	U 3.300	******
MAR 3.81	MAR 2.81	*****	*****	*****	*****	*****	*****	U 0.0001
MAR 4.81	MAR 3.81	*****	0.92	*****	*****	*****	1.160	******
MAR 9.81	MAR 8.81	*****	0.80	*****	*****	*****	1.940	U 0.0001
MAR 11.81	MAR 10.81	0.93	0.14	0.230	0.030	0.160	0.820	U 0.0001
MAR 17.81	MAR 16.81	U 2.80	0.28	U 0.795	0.030	0.120	0.460	U 0.0010
MAR 18.81	MAR 17.81	*****	0.98	*****	*****	*****	*****	U 0.0000
MAR 20.81	MAR 19.81	0.14	0.15	0.045	0.020	0.100	0.900	U 0.0000
MAR 26.81	MAR 25.81	1.09	0.33	0.175	0.030	0.120	0.640	0.0132
MAR 27.81	MAR 26.81	0.37	0.16	0.035	0.030	0.060	0.980	0.0245
MAR 30.81	MAR 29.81	0.40	0.09	0.050	0.020	0.060	0.580	0.0871
MAR 31.81	MAR 30.81	*****	0.22	*****	*****	*****	*****	0.0195
APR 1.81	MAR 31.81	*****	0.84	*****	*****	*****	0.710	U 0.0003
APR 4.81	APR 3.81	U 2.55	0.69	U 0.390	0.240	0.450	1.540	U 0.0001
APR 9.81	APR 8.81	U 4.05	0.98	U 0.750	0.190	0.630	2.000	U 0.0026
APR 11.81	APR 10.81	0.48	0.10	0.120	<T 0.010	0.070	0.490	U 0.0001
APR 12.81	APR 11.81	*****	*****	*****	*****	*****	*****	0.0115
APR 14.81	APR 13.81	0.09	0.11	0.045	0.010	0.110	0.348	U 0.0001
APR 17.81	APR 15.81	1.71	0.22	U 0.455	0.010	0.120	0.520	0.0525
APR 18.81	APR 17.81	U 0.70	0.11	U 0.155	0.080	0.110	U 1.560	U 0.0013
								0.0062

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/SES #04

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
APR 20-81	APR 19.81	1200	1800	100	300	1	****	*	2033	2	1	****	C	
APR 23-81	APR 22.81	1600	1700	2230	1400	1	9.2	2	2034	2	1	115	AC	
APR 24-81	APR 23.81	1700	1600	1700	1500	1	3.6	2	2035	2	1	104	A	
APR 28-81	APR 27.81	1700	1600	2400	900	1	18.2	2	2036	2	1	95	A	
APR 29-81	APR 28.81	1600	1600	100	700	1	4.8	2	2037	2	1	121	A	N
MAY 5-81	MAY 4.81	1700	1700	1500	1830	1	0.4	2	18601	2	1	161	AC	N
MAY 7-81	MAY 5.81	1700	1600	****	****	1	****	2	18602	2	1	****	C	Z
NOV 30-81	NOV 29.81	530	530	****	****	3	3.7	2	18670	2	1	45		N
DEC 1-81	NOV 30.81	530	530	****	****	3	4.6	2	18671	2	1	55	C	
DEC 2-81	DEC 1.81	530	530	1900	2200	1	11.8	2	18672	2	1	98	C	
DEC 3-81	DEC 2.81	530	530	****	****	1	****	2	18673	2	1	****	C	
DEC 4-81	DEC 3.81	530	800	2400	700	2	0.8	2	18674	2	1	35	C	N
DEC 9-81	DEC 8.81	530	530	530	1130	2	1.8	2	18675	2	1	66	CD	
DEC 15-81	DEC 14.81	530	530	****	****	2	0.8	2	18676	2	1	70	C	
DEC 17-81	DEC 16.81	530	530	****	****	3	0.5	2	18677	2	1	62	CD	
DEC 22-81	DEC 21.81	530	530	1000	1900	2	5.4	2	18678	2	1	39	CD	N
DEC 23-81	DEC 22.81	530	530	2400	530	2	17.8	2	18679	2	1	90	C	
DEC 24-81	DEC 23.81	530	530	2400	400	2	0.8	2	18680	2	1	52		
DEC 25-81	DEC 24.81	830	900	****	****	2	0.6	2	18681	2	1	70	C	
DEC 27-81	DEC 26.81	800	630	930	1700	2	0.6	2	18682	2	1	25	CD	N
DEC 28-81	DEC 27.81	630	530	1400	2200	3	1.8	2	18683	2	1	51	CD	
DEC 29-81	DEC 28.81	530	530	1200	530	2	3.6	2	18684	2	1	77	C	
JAN 1-82	DEC 31.81	530	900	1800	300	3	6.4	2	18685	2	1	79	C	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/SES #04 PAGE : 5

REMOVAL DATE	EXPOSURE DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD		PH LAB	TOTAL H+ TO PH8.3 UG/L		SULPHATE MG/L		NITRATE AS N MG/L
APR 20.81	APR 19.81		84.	*****	*****	U	6.50	******		8.85		1.77
APR 23.81	APR 22.81		1737.	37.7	4.21		4.31	0.0926		4.30		0.88
APR 24.81	APR 23.81		616.	40.8	4.21		4.21	0.0996		3.50		0.89
APR 28.81	APR 27.81		2859.	8.9	5.66	U	6.31	0.0270		1.50		0.26
APR 29.81	APR 28.81		954.	76.5	3.85		3.85	0.1956		5.10	U	2.10
MAY 5.81	MAY 4.81		106.	*****	*****	U	7.77	******	U	13.80		2.40
MAY 7.81	MAY 5.81		189.	*****	*****		3.83	******		13.50		2.45
NOV 30.81	NOV 29.81	U	275.	24.2	*****	U	5.33	0.0512		4.65		0.59
DEC 1.81	NOV 30.81		421.	24.0	*****	U	5.27	0.0480	U	4.70		0.60
DEC 2.81	DEC 1.81		1912.	*****	4.22		4.34	******		*****		*****
DEC 3.81	DEC 2.81		46.	*****	*****		4.20	******		9.50		2.16
DEC 4.81	DEC 3.81	U	46.	*****	*****	U	6.77	******		9.95		1.08
DEC 9.81	DEC 8.81		195.	*****	*****	U	5.03	******		4.95		2.26
DEC 15.81	DEC 14.81		93.	*****	*****	U	7.20	******		8.40		2.16
DEC 17.81	DEC 16.81		51.	*****	*****	U	7.48	******		2.00		0.39
DEC 22.81	DEC 21.81	U	353.	*****	*****	U	6.47	******		1.10		0.37
DEC 23.81	DEC 22.81		2644.	7.2	*****		4.78	0.0566		0.45		0.13
DEC 24.81	DEC 23.81		69.	*****	*****		4.86	******		1.35		0.38
DEC 25.81	DEC 24.81		69.	*****	*****	U	6.61	******		4.20		1.94
DEC 27.81	DEC 26.81	U	25.	*****	*****		4.17	******		*****		*****
DEC 28.81	DEC 27.81		152.	36.2	*****		4.22	******		2.60		0.92
DEC 29.81	DEC 28.81		460.	15.1	*****		4.63	0.0674		0.65		0.51
JAN 1.82	DEC 31.81		838.	33.0	*****		4.25	0.1078		2.75		0.75

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/SES #04

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
APR 20.81	APR 19.81	*****	0.57	*****	*****	*****	*****	U 0.0003
APR 23.81	APR 22.81	0.83	0.19	0.215	<T 0.010	0.050	0.720	0.0490
APR 24.81	APR 23.81	0.46	U 0.96	0.105	<T 0.010	0.040	U 1.040	0.0617
APR 28.81	APR 27.81	0.58	0.02	0.155	<T 0.010	0.020	0.310	U 0.0005
APR 29.81	APR 28.81	0.36	0.17	U 0.130	0.060	0.040	U 1.320	0.1413
MAY 5.81	MAY 4.81	*****	0.96	*****	*****	*****	U 2.650	U 0.0000
MAY 7.81	MAY 5.81	1.15	0.95	0.365	0.070	0.200	3.050	0.1479
NOV 30.81	NOV 29.81	1.16	0.48	U 0.390	0.150	0.320	0.670	U 0.0047
DEC 1.81	NOV 30.81	1.32	U 0.51	U 0.380	0.140	0.300	U 0.650	U 0.0054
DEC 2.81	DEC 1.81	*****	*****	*****	*****	*****	*****	0.0457
DEC 3.81	DEC 2.81	*****	0.90	*****	*****	*****	*****	0.0631
DEC 4.81	DEC 3.81	*****	0.72	*****	*****	*****	*****	U 0.0002
DEC 9.81	DEC 8.81	U 2.02	0.74	0.270	0.100	0.300	U 2.300	U 0.0093
DEC 15.81	DEC 14.81	*****	U 2.07	*****	*****	*****	*****	U 0.0001
DEC 17.81	DEC 16.81	*****	U 4.14	*****	*****	*****	*****	U 0.0000
DEC 22.81	DEC 21.81	*****	0.17	*****	*****	*****	*****	U 0.0003
DEC 23.81	DEC 22.81	0.05	0.07	<T 0.005	<T 0.010	0.010	0.104	0.0166
DEC 24.81	DEC 23.81	*****	0.29	*****	*****	*****	*****	0.0138
DEC 25.81	DEC 24.81	*****	1.09	*****	*****	*****	*****	U 0.0002
DEC 27.81	DEC 26.81	*****	*****	*****	*****	*****	*****	0.0676
DEC 28.81	DEC 27.81	0.78	0.45	0.070	0.060	0.090	0.340	0.0603
DEC 29.81	DEC 28.81	0.09	0.15	0.015	0.010	0.050	0.330	0.0234
JAN 1.82	DEC 31.81	0.50	0.50	0.060	0.030	0.320	0.570	0.0562

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM #05 PAGE : 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
MAY 6.81	MAY 5.81	930	930	1900	2200	1	2.5	1	28601	2	1	107		
MAY 10.81	MAY 9.81	930	930	400	500	1	2.4	1	28602	2	1	83		
MAY 11.81	MAY 10.81	930	930	2400	200	1	15.0	1	28603	2	1	78		
MAY 12.81	MAY 11.81	930	930	1600	1900	1	8.0	1	28604	2	1	79		
MAY 15.81	MAY 14.81	930	930	1900	2200	1	2.5	1	28605	2	1	92	C	
MAY 16.81	MAY 15.81	930	930	1600	1900	1	1.0	1	28606	2	1	63	C	
MAY 26.81	MAY 25.81	930	930	1500	1700	1	2.2	1	28607	2	1	141	D	N
MAY 27.81	MAY 26.81	930	930	1430	1500	1	4.0	1	28608	2	1	92	D	
MAY 28.81	MAY 27.81	930	930	1600	2100	1	6.4	1	28609	2	1	102		
MAY 30.81	MAY 29.81	930	930	400	500	1	6.6	1	28610	2	1	105	D	
JUN 3.81	JUN 2.81	930	930	400	900	1	0.6	1	28611	2	1	122	CD	N
JUN 4.81	JUN 3.81	930	930	1130	1300	1	3.6	1	28612	2	1	103		
JUN 9.81	JUN 8.81	930	930	2300	2400	1	18.8	1	28613	2	1	103	D	
JUN 11.81	JUN 10.81	930	930	1200	1600	1	2.6	1	28614	2	1	109		
JUN 13.81	JUN 12.81	930	930	1400	1500	1	0.6	1	28615	2	1	98		
JUN 16.81	JUN 15.81	930	930	1600	1800	1	25.0	1	28616	2	1	202		N
JUN 17.81	JUN 16.81	930	930	1900	2000	1	0.8	1	28617	2	1	144		N
JUN 22.81	JUN 21.81	930	930	630	930	1	18.8	1	28618	2	1	103		
JUN 23.81	JUN 22.81	930	930	1400	1600	1	18.4	1	28619	2	1	71	A	
JUN 25.81	JUN 24.81	930	930	1300	1400	1	1.2	1	28620	2	1	59		
JUN 30.81	JUN 29.81	930	930	2100	2300	1	6.0	1	28621	2	1	92		
JUL 3.81	JUL 2.81	930	930	1800	1830	1	4.2	1	28622	2	1	82		
JUL 6.81	JUL 5.81	930	930	1440	1530	1	25.0	1	28623	2	1	102		
JUL 18.81	JUL 17.81	930	930	2300	2400	1	4.8	1	28624	2	1	104		
JUL 20.81	JUL 19.81	930	930	1830	2000	1	3.5	1	28625	2	1	82		
JUL 29.81	JUL 28.81	930	930	1100	1800	1	20.3	1	28626	2	1	95	A	
AUG 4.81	AUG 3.81	930	930	930	1200	1	5.1	1	28627	2	1	95	A	
AUG 5.81	AUG 4.81	930	930	2300	****	1	5.0	1	28628	2	1	94		
AUG 9.81	AUG 8.81	930	930	1600	1700	1	10.0	1	28629	2	1	90		
AUG 11.81	AUG 10.81	930	930	1700	1900	1	12.4	1	28630	2	1	98		
AUG 15.81	AUG 14.81	930	930	500	600	1	23.0	1	28631	2	1	97		
AUG 16.81	AUG 15.81	930	930	930	1200	1	10.0	1	28632	2	1	98		
AUG 24.81	AUG 23.81	930	930	2300	2400	1	5.0	1	28633	2	1	91		
AUG 27.81	AUG 26.81	930	930	700	900	1	2.4	1	28634	2	1	102		
AUG 28.81	AUG 27.81	930	930	930	1100	1	1.7	1	28635	2	1	72		
AUG 29.81	AUG 28.81	930	930	1930	2300	1	5.3	1	28636	2	1	99		
SEP 2.81	SEP 1.81	930	930	1000	1100	1	12.2	1	28637	2	1	113		
SEP 4.81	SEP 3.81	930	930	2300	100	1	26.0	1	28638	2	1	92		
SEP 5.81	SEP 4.81	930	930	930	1500	1	17.6	1	28639	2	1	91		
SEP 6.81	SEP 5.81	930	930	2100	2200	1	2.0	1	28640	2	1	42	CD	N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM #05

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
MAY 6.81	MAY 5.81	172.	*****	*****	4.42	******	2.65	0.54
MAY 10.81	MAY 9.81	128.	*****	*****	3.74	******	9.85	1.56
MAY 11.81	MAY 10.81	754.	62.5	3.87	3.99	0.1652	5.90	0.85
MAY 12.81	MAY 11.81	488.	21.9	4.30	4.36	0.0738	1.90	0.39
MAY 15.81	MAY 14.81	149.	*****	*****	4.06	******	4.40	0.58
MAY 16.81	MAY 15.81	41.	*****	*****	3.54	******	15.50	2.80
MAY 26.81	MAY 25.81	280.	*****	*****	4.08	******	3.75	0.58
MAY 27.81	MAY 26.81	238.	*****	*****	6.26	0.0310	2.15	0.52
MAY 28.81	MAY 27.81	421.	56.5	3.92	3.92	0.1582	5.45	0.62
MAY 30.81	MAY 29.81	448.	37.9	4.17	4.12	0.1010	4.15	0.59
JUN 3.81	JUN 2.81	47.	*****	*****	3.52	******	15.50	2.10
JUN 4.81	JUN 3.81	238.	*****	*****	3.60	U 0.0334	11.50	1.47
JUN 9.81	JUN 8.81	1253.	34.4	4.21	4.30	U 0.0372	4.90	0.61
JUN 11.81	JUN 10.81	182.	*****	*****	4.66	******	1.15	0.25
JUN 13.81	JUN 12.81	38.	*****	*****	6.19	******	1.85	0.52
JUN 16.81	JUN 15.81	3247.	11.8	4.72	4.84	0.0448	1.25	0.22
JUN 17.81	JUN 16.81	74.	*****	*****	3.94	******	6.25	0.79
JUN 22.81	JUN 21.81	1249.	17.9	4.31	4.45	0.0672	1.60	0.23
JUN 23.81	JUN 22.81	839.	11.0	4.46	4.65	0.0572	1.25	0.05
JUN 25.81	JUN 24.81	46.	*****	*****	4.21	******	3.48	0.60
JUN 30.81	JUN 29.81	357.	34.6	4.28	4.25	0.0958	4.65	0.55
JUL 3.81	JUL 2.81	222.	*****	*****	4.35	******	3.00	0.57
JUL 6.81	JUL 5.81	1645.	52.0	3.94	3.95	0.1476	5.30	0.38
JUL 18.81	JUL 17.81	322.	*****	4.38	4.41	******	*****	*****
JUL 20.81	JUL 19.81	184.	*****	*****	3.58	******	13.20	1.69
JUL 29.81	JUL 28.81	1245.	21.8	4.17	4.38	0.0696	1.85	0.20
AUG 4.81	AUG 3.81	311.	17.8	*****	4.45	0.0626	1.65	0.22
AUG 5.81	AUG 4.81	303.	33.7	*****	4.25	0.0888	3.95	0.45
AUG 9.81	AUG 8.81	577.	39.5	3.91	4.18	0.1114	3.45	0.48
AUG 11.81	AUG 10.81	783.	39.9	4.02	4.16	0.1058	4.00	0.66
AUG 15.81	AUG 14.81	1438.	46.5	3.85	4.03	******	4.40	0.51
AUG 16.81	AUG 15.81	632.	34.4	3.99	4.18	0.1070	3.60	0.23
AUG 24.81	AUG 23.81	292.	47.4	*****	4.05	0.1228	4.70	0.52
AUG 27.81	AUG 26.81	157.	*****	*****	4.00	******	5.80	0.77
AUG 28.81	AUG 27.81	79.	*****	*****	3.94	******	6.30	0.45
AUG 29.81	AUG 28.81	339.	84.0	*****	3.74	0.2224	9.15	0.41
SEP 2.81	SEP 1.81	888.	76.0	3.63	3.77	0.2000	6.80	0.85
SEP 4.81	SEP 3.81	1543.	32.4	3.97	4.17	0.0984	3.80	0.29
SEP 5.81	SEP 4.81	1035.	29.1	4.17	4.21	0.0908	2.45	0.29
SEP 6.81	SEP 5.81	U 55.	*****	*****	4.02	******	4.50	0.33

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM #05 PAGE : 3

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L
MAY 6.81	MAY 5.81	0.62		0.17		0.105		0.010		0.030		0.230		0.0380
MAY 10.81	MAY 9.81	*****		0.37		*****		*****		*****		0.510		0.1820
MAY 11.81	MAY 10.81	0.29		0.45		0.060		0.050		0.310		0.460		0.1023
MAY 12.81	MAY 11.81	0.07		0.19		0.005		0.020		0.180		0.136		0.0437
MAY 15.81	MAY 14.81	0.47		0.36		0.040		0.010		0.030		0.122		0.0871
MAY 16.81	MAY 15.81	*****		0.57		*****		*****		*****		*****		0.2884
MAY 26.81	MAY 25.81	0.27		0.17		0.040		0.020		0.090		0.230		0.0032
MAY 27.81	MAY 26.81	0.47		0.15		0.085		0.030		0.130		0.860		0.0005
MAY 28.81	MAY 27.81	0.09		0.20		0.010		0.030		0.040		0.370		0.1202
MAY 30.81	MAY 29.81	0.18		0.20		0.030		0.030		0.090		0.660		0.0759
JUN 3.81	JUN 2.81	*****		0.99		*****		*****		*****		*****		0.3020
JUN 4.81	JUN 3.81	0.60		0.44		0.110		0.050		0.190		1.050		0.2512
JUN 9.81	JUN 8.81	0.80		0.21		0.130		0.040		0.050		0.690		0.0501
JUN 11.81	JUN 10.81	0.14		0.27		0.015		0.020		0.310		0.096		0.0219
JUN 13.81	JUN 12.81	*****		0.46		*****		*****		*****		*****		0.0006
JUN 16.81	JUN 15.81	0.10		0.21		0.025		0.020		0.160		0.300		0.0145
JUN 17.81	JUN 16.81	*****		0.56		*****		*****		*****		*****		0.1148
JUN 22.81	JUN 21.81	0.04		0.09		0.015		0.040		0.060		0.220		0.0355
JUN 23.81	JUN 22.81	0.04		0.02		0.010		0.030		0.020		0.100		0.0224
JUN 25.81	JUN 24.81	*****		0.33		*****		*****		*****		*****		0.0617
JUN 30.81	JUN 29.81	0.65		0.20		0.105		0.030		0.110		0.780		0.0562
JUL 3.81	JUL 2.81	0.68		0.57		0.070		0.020		0.410		0.370		0.0447
JUL 6.81	JUL 5.81	0.06		0.10		0.015		0.030		0.040		0.390		0.1122
JUL 18.81	JUL 17.81	*****		*****		*****		*****		*****		*****		0.0389
JUL 20.81	JUL 19.81	0.52		0.79		0.080		0.120		0.730		1.280		0.2630
JUL 29.81	JUL 28.81	0.06		0.07		0.005		0.010		0.040		0.056		0.0417
AUG 4.81	AUG 3.81	0.11		0.16		0.015		0.010		0.160		0.112		0.0355
AUG 5.81	AUG 4.81	0.12		0.16		0.020		0.020		0.100		0.670		0.0562
AUG 9.81	AUG 8.81	0.10		0.12		0.015		0.010		0.040		0.192		0.0794
AUG 11.81	AUG 10.81	0.31		0.16		0.040		0.030		0.070		0.640		0.0692
AUG 15.81	AUG 14.81	0.08		0.12		0.015		0.020		0.040		0.420		0.0933
AUG 16.81	AUG 15.81	0.04		0.12		0.010		0.010		0.120		0.314		0.0692
AUG 24.81	AUG 23.81	0.22	U	0.30		0.025		0.010	U	0.250		0.320		0.0891
AUG 27.81	AUG 26.81	0.61		0.28		0.100		0.020		0.200		0.500		0.1000
AUG 28.81	AUG 27.81	*****		0.48		*****		*****		*****		*****		0.1148
AUG 29.81	AUG 28.81	0.08		0.16		0.005		0.010	U	0.140		0.410		0.1820
SEP 2.81	SEP 1.81	0.10		0.22		0.010		0.020		0.070		0.380		0.1698
SEP 4.81	SEP 3.81	0.02		0.07	<T	0.005		0.010		0.040		0.170		0.0676
SEP 5.81	SEP 4.81	0.02		0.14	<T	0.005		0.010		0.070		0.114		0.0617
SEP 6.81	SEP 5.81	*****	U	0.47		*****		*****		*****		*****		0.0955

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM #05

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
SEP 7.81	SEP 6.81	930	930	1500	1700	1	2.3	1	28641	2	1	52	C	
SEP 8.81	SEP 7.81	930	900	****	400	1	37.2	1	28642	2	1	100	A	
SEP 9.81	SEP 8.81	900	930	700	1000	1	7.2	1	28643	2	1	94		C
SEP 10.81	SEP 9.81	930	930	800	830	1	1.3	1	28644	2	1	91	C	
SEP 11.81	SEP 10.81	930	930	1230	1300	1	1.3	1	28645	2	1	75	C	
SEP 26.81	SEP 25.81	930	930	500	700	1	1.2	1	28646	2	1	48		N
SEP 27.81	SEP 26.81	930	930	2300	2400	1	19.2	1	28647	2	1	97		
SEP 28.81	SEP 27.81	930	930	400	500	1	1.3	1	28648	2	1	64	C	
OCT 2.81	OCT 1.81	930	930	1130	1230	1	8.8	1	28649	2	1	91	C	
OCT 5.81	OCT 4.81	930	930	1500	1600	1	2.8	1	28650	2	1	47	C	N
OCT 6.81	OCT 5.81	930	930	700	930	1	10.4	1	28651	2	1	103		
OCT 7.81	OCT 6.81	930	930	930	1130	1	12.2	1	28652	2	1	95		
OCT 8.81	OCT 7.81	930	930	1800	2000	1	2.8	1	28653	2	1	67	C	
OCT 16.81	OCT 15.81	930	930	900	1100	1	2.8	1	28654	2	1	21		N
OCT 18.81	OCT 17.81	930	930	600	930	1	13.2	1	28655	2	1	100		
OCT 19.81	OCT 18.81	930	930	930	1100	1	2.6	1	28656	2	1	164		CN
OCT 22.81	OCT 21.81	930	930	2300	500	2	5.3	1	28657	2	1	88		
OCT 23.81	OCT 22.81	930	930	1500	1300	2	8.8	1	28658	2	1	125	C	N
OCT 24.81	OCT 23.81	930	930	1630	1730	3	4.8	1	28659	2	1	68	C	
OCT 26.81	OCT 25.81	830	830	600	800	1	8.6	1	28660	2	1	184	C	N
OCT 28.81	OCT 27.81	830	830	1100	1530	1	12.2	1	28661	2	1	101	C	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM #05

REMOVAL DATE	EXPOSURE DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L		SULPHATE MG/L		NITRATE AS N MG/L	
SEP 7.81	SEP 6.81		78.	*****	*****		3.84		******		U 6.40		U 0.79	
SEP 8.81	SEP 7.81		2394.	41.0	4.03		4.09		0.1220		4.15		0.53	
SEP 9.81	SEP 8.81		434.	21.7	U 6.61		U 6.92		0.0226		3.20		0.44	
SEP 10.81	SEP 9.81		76.	*****	*****		U 6.81		******		2.70		0.43	
SEP 11.81	SEP 10.81		63.	*****	*****		6.60		******		5.15		0.82	
SEP 26.81	SEP 25.81	U	37.	*****	*****		4.41		******		4.20		0.84	
SEP 27.81	SEP 26.81		1202.	71.0	3.79		3.83		0.1894		7.15		0.76	
SEP 28.81	SEP 27.81		54.	*****	*****		U 6.41		******		1.80		0.86	
OCT 2.81	OCT 1.81		470.	20.7	4.34		4.45		0.0636		1.90		0.24	
OCT 5.81	OCT 4.81	U	61.	*****	*****		4.38		******		2.75		0.30	
OCT 6.81	OCT 5.81		690.	31.8	4.18		4.17		0.0990		2.70		0.56	
OCT 7.81	OCT 6.81		745.	20.8	4.36		4.39		0.0688		1.80		0.20	
OCT 8.81	OCT 7.81		86.	*****	*****		4.68		******		1.80		0.17	
OCT 16.81	OCT 15.81	U	28.	*****	*****		4.82		******		*****		*****	
OCT 18.81	OCT 17.81		854.	21.6	4.27		4.24		0.0772		1.80		0.22	
OCT 19.81	OCT 18.81		274.	12.0	*****		U 5.06		0.0370		1.60		0.12	
OCT 22.81	OCT 21.81		300.	7.8	*****		4.84		0.0446		0.80		0.11	
OCT 23.81	OCT 22.81		646.	5.3	4.96		4.97		0.0344		0.25		0.07	
OCT 24.81	OCT 23.81		175.	*****	*****		4.92		******		U 1.35		0.37	
OCT 26.81	OCT 25.81		71.	*****	*****		4.80		******		2.90		0.71	
OCT 28.81	OCT 27.81		795.	12.4	4.50		4.57		0.0526		1.10		0.11	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM #05

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
SEP 7.81	SEP 6.81	*****	U 0.53	*****	*****	*****	0.346	0.1445
SEP 8.81	SEP 7.81	0.05	0.12	0.020	0.020	0.030	0.510	0.0013
SEP 9.81	SEP 8.81	U 2.68	0.36	U 0.110	0.020	U 0.190	0.122	U 0.0001
SEP 10.81	SEP 9.81	*****	U 0.62	*****	*****	*****	*****	U 0.0002
SEP 11.81	SEP 10.81	*****	0.32	*****	*****	*****	*****	0.0003
SEP 26.81	SEP 25.81	*****	0.45	*****	*****	*****	*****	0.0389
SEP 27.81	SEP 26.81	0.35	0.20	0.045	0.040	0.100	0.410	0.1479
SEP 28.81	SEP 27.81	*****	U 0.85	*****	*****	*****	*****	U 0.0004
OCT 2.81	OCT 1.81	0.05	0.15	<T 0.005	<T 0.010	U 0.240	0.214	0.0385
OCT 5.81	OCT 4.81	*****	U 0.55	*****	*****	*****	*****	0.0417
OCT 6.81	OCT 5.81	0.24	0.16	0.005	0.040	0.160	0.286	0.0676
OCT 7.81	OCT 6.81	0.02	U 0.09	<T 0.005	<T 0.010	U 0.130	0.132	0.0407
OCT 8.81	OCT 7.81	*****	0.40	*****	*****	*****	0.358	0.0209
OCT 16.81	OCT 15.81	*****	*****	*****	*****	*****	*****	0.0955
OCT 18.81	OCT 17.81	0.07	0.09	0.020	0.020	0.070	0.090	0.0575
OCT 19.81	OCT 18.81	U 0.15	U 0.22	0.025	0.040	U 0.350	0.216	U 0.0007
OCT 22.81	OCT 21.81	0.16	0.10	<T 0.005	0.020	0.170	0.038	0.0145
OCT 23.81	OCT 22.81	0.03	0.04	<T 0.005	<T 0.010	0.060	0.004	0.0107
OCT 24.81	OCT 23.81	0.41	0.15	0.015	0.040	U 0.100	U 0.388	0.0120
OCT 26.81	OCT 25.81	*****	0.52	*****	*****	*****	*****	0.1000
OCT 28.81	OCT 27.81	0.06	0.04	<T 0.005	<T 0.010	0.010	0.006	0.0269

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/SES #05 PAGE : 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
FEB 2.81	FEB 1.81	830	830	****	****	3	****	*	477	2	1	****		C
FEB 3.81	FEB 2.81	830	830	****	****	2	****	*	478	2	1	****		
FEB 6.81	DEC 5.81	900	900	****	****	2	****	*	479	2	1	****		Z
FEB 7.81	FEB 6.81	830	830	****	****	2	****	*	480	2	1	****		
FEB 8.81	FEB 7.81	830	830	****	****	2	****	*	481	2	1	****		
FEB 11.81	FEB 10.81	830	830	****	****	3	****	*	482	2	1	****		N
FEB 12.81	FEB 11.81	830	830	****	****	2	****	*	483	2	1	****		
FEB 17.81	FEB 16.81	830	830	****	****	1	****	*	484	2	1	****		
FEB 20.81	FEB 19.81	830	830	****	****	1	4.4	1	1584	2	1	104		
FEB 21.81	FEB 20.81	830	830	****	****	1	7.8	1	1585	2	1	97		
FEB 23.81	FEB 22.81	830	830	****	****	1	1.2	1	1586	2	1	82		
FEB 24.81	FEB 23.81	830	830	****	****	1	8.0	1	1587	2	1	100		
FEB 25.81	FEB 24.81	830	830	****	****	1	2.0	1	1588	2	1	59		
FEB 28.81	FEB 27.81	830	830	****	****	1	0.8	2	1589	2	1	143	C	N
MAR 1.81	FEB 28.81	830	830	****	****	1	0.4	2	1590	2	1	41		N
MAR 2.81	MAR 1.81	830	830	****	****	2	0.6	2	1591	2	1	63		
MAR 4.81	MAR 3.81	830	830	****	****	2	1.8	2	1592	2	1	85		
MAR 5.81	MAR 4.81	830	830	****	****	2	3.7	2	1593	2	1	67		
MAR 7.81	MAR 6.81	830	830	****	****	2	1.0	2	1594	2	1	53		
MAR 11.81	MAR 10.81	830	830	****	****	2	0.7	2	1595	2	1	67	CD	
MAR 12.81	MAR 11.81	830	830	****	****	3	0.7	2	1596	2	1	51		
MAR 14.81	MAR 13.81	830	830	****	****	2	1.2	1	2500	2	1	15	E	N
MAR 16.81	MAR 15.81	830	830	****	****	2	2.9	2	1597	2	1	82	D	
MAR 17.81	MAR 16.81	830	830	****	****	2	2.2	2	1598	2	1	111	C	C
MAR 20.81	MAR 19.81	830	830	****	****	2	1.5	2	1599	2	1	42		N
MAR 27.81	MAR 26.81	830	830	****	****	3	4.8	2	1600	2	1	104		
MAR 30.81	MAR 29.81	830	1230	****	****	1	15.4	1	1601	2	1	108		
MAR 31.81	MAR 30.81	1230	830	****	****	1	5.4	1	1602	2	1	102		
APR 2.81	APR 1.81	830	830	****	****	1	2.8	1	1603	2	1	130		N
APR 4.81	APR 3.81	830	830	****	****	1	6.8	1	1604	2	1	121	CD	N
APR 9.81	APR 8.81	830	830	****	****	1	2.2	1	2086	2	1	106	CD	
APR 11.81	APR 10.81	830	830	****	****	1	10.2	1	2087	2	1	103		
APR 14.81	APR 13.81	830	830	****	****	1	16.0	1	2088	2	1	101		
APR 15.81	APR 14.81	830	830	****	****	1	2.2	1	2089	2	1	97		
APR 17.81	APR 16.81	830	830	400	700	1	2.4	1	2090	2	1	129	C	N
APR 18.81	APR 17.81	830	830	2300	400	1	17.2	1	2091	2	1	103	C	
APR 20.81	APR 19.81	830	830	2000	2300	3	1.6	1	2092	2	1	86	C	
APR 23.81	APR 22.81	830	830	****	****	1	0.8	1	2093	2	1	61		
APR 24.81	APR 23.81	830	830	1800	2000	1	4.8	1	2094	2	1	127		N
APR 25.81	APR 24.81	830	830	2000	2300	3	2.6	1	2095	2	1	103		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/SES #05

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
FEB 2.81	FEB 1.81	1995.	17.6	4.35	4.39	0.0718	1.50	0.52
FEB 3.81	FEB 2.81	74.	21.6	*****	4.40	******	1.85	0.86
FEB 6.81	DEC 5.81	133.	33.6	*****	U 6.93	******	1.65	1.70
FEB 7.81	FEB 6.81	292.	26.1	*****	U 6.82	******	2.00	1.24
FEB 8.81	FEB 7.81	72.	*****	*****	3.80	******	5.60	> 2.00
FEB 11.81	FEB 10.81	3360.	10.9	4.43	4.78	0.0570	0.85	0.28
FEB 12.81	FEB 11.81	179.	24.1	*****	4.33	******	2.10	0.62
FEB 17.81	FEB 16.81	457.	40.6	4.08	4.11	0.1088	3.70	U 0.53
FEB 20.81	FEB 19.81	752.	49.4	3.80	3.98	0.1432	3.35	1.00
FEB 21.81	FEB 20.81	1249.	12.9	4.32	4.60	0.0538	0.75	0.22
FEB 23.81	FEB 22.81	163.	*****	*****	4.28	******	5.40	0.76
FEB 24.81	FEB 23.81	1317.	22.1	4.14	4.36	0.0764	1.65	0.38
FEB 25.81	FEB 24.81	194.	*****	*****	U 5.22	******	3.85	1.50
FEB 28.81	FEB 27.81	188.	*****	*****	4.01	******	11.75	1.50
MAR 1.81	FEB 28.81	U 27.	*****	*****	3.57	******	*****	*****
MAR 2.81	MAR 1.81	62.	*****	*****	U 5.85	******	5.55	0.68
MAR 4.81	MAR 3.81	192.	*****	*****	4.46	******	0.50	U 1.14
MAR 5.81	MAR 4.81	411.	*****	4.08	4.12	0.1242	2.55	1.42
MAR 7.81	MAR 6.81	88.	*****	*****	4.94	******	0.55	0.14
MAR 11.81	MAR 10.81	77.	*****	*****	U 4.70	******	2.80	U 0.51
MAR 12.81	MAR 11.81	59.	*****	*****	4.56	******	2.30	0.17
MAR 14.81	MAR 13.81	U 30.	*****	*****	*****	******	*****	*****
MAR 16.81	MAR 15.81	394.	25.0	U 6.49	U 6.68	0.0310	U 3.90	0.85
MAR 17.81	MAR 16.81	402.	8.3	6.20	6.46	0.0248	0.35	0.36
MAR 20.81	MAR 19.81	U 105.	*****	*****	U 6.31	******	0.95	0.11
MAR 27.81	MAR 26.81	819.	55.0	3.92	4.06	0.1350	4.55	1.34
MAR 30.81	MAR 29.81	2653.	37.7	4.13	4.25	0.0976	4.90	0.52
MAR 31.81	MAR 30.81	911.	30.5	4.24	4.33	0.0858	3.65	0.47
APR 2.81	APR 1.81	597.	36.5	4.23	4.39	0.0838	5.30	0.76
APR 4.81	APR 3.81	1355.	29.5	4.41	4.96	0.0492	6.10	0.71
APR 9.81	APR 8.81	384.	60.0	U 6.80	U 7.27	0.0344	9.20	1.70
APR 11.81	APR 10.81	1737.	34.0	4.10	4.30	0.0454	4.30	0.93
APR 14.81	APR 13.81	2668.	22.6	4.22	4.37	0.0724	2.35	0.38
APR 15.81	APR 14.81	353.	23.5	4.17	4.34	0.0760	U 2.40	U 0.24
APR 17.81	APR 16.81	510.	23.0	U 5.57	U 6.25	0.0328	3.90	1.01
APR 18.81	APR 17.81	2905.	27.7	4.11	4.54	0.0694	3.80	0.80
APR 20.81	APR 19.81	227.	*****	*****	4.44	0.0756	4.60	0.53
APR 23.81	APR 22.81	81.	*****	*****	U 7.50	******	5.05	0.82
APR 24.81	APR 23.81	1002.	68.0	3.71	3.85	0.1904	6.55	1.03
APR 25.81	APR 24.81	441.	17.3	4.30	4.50	0.0456	1.30	0.28

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/SES #05 PAGE : 3

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
FEB 2.81	FEB 1.81	U 0.42	0.20	U 0.035	U 0.030	0.060	0.146	0.0487
FEB 3.81	FEB 2.81	*****	0.36	*****	*****	*****	0.390	0.0398
FEB 6.81	DEC 5.81	U 4.90	1.02	U 0.370	0.120	0.860	0.070	U 0.0001
FEB 7.81	FEB 6.81	U 3.60	0.54	U 0.215	0.120	0.500	U 0.182	U 0.0002
FEB 8.81	FEB 7.81	*****	> 1.50	*****	*****	*****	1.080	0.1585
FEB 11.81	FEB 10.81	U 0.17	U 0.28	0.040	U 0.020	0.040	0.104	0.0166
FEB 12.81	FEB 11.81	0.53	0.38	0.060	0.090	0.060	0.088	0.0468
FEB 17.81	FEB 16.81	0.52	1.08	0.070	0.040	0.660	0.176	0.0776
FEB 20.81	FEB 19.81	0.16	0.10	0.015	0.040	0.040	0.308	0.1047
FEB 21.81	FEB 20.81	0.04	0.03	<T 0.005	0.010	0.010	0.052	0.0251
FEB 23.81	FEB 22.81	0.77	2.20	0.240	0.160	1.800	0.760	0.0525
FEB 24.81	FEB 23.81	0.12	0.20	0.015	0.020	0.090	0.156	0.0437
FEB 25.81	FEB 24.81	U 1.82	0.29	0.200	0.200	0.110	1.090	U 0.0060
FEB 28.81	FEB 27.81	2.50	0.60	0.180	0.130	0.480	1.800	0.0977
MAR 1.81	FEB 28.81	*****	*****	*****	*****	*****	*****	0.2692
MAR 2.81	MAR 1.81	*****	0.27	*****	*****	*****	*****	U 0.0014
MAR 4.81	MAR 3.81	0.93	0.38	0.105	0.020	0.110	0.132	0.0347
MAR 5.81	MAR 4.81	0.63	0.69	0.100	0.050	0.140	0.620	0.0759
MAR 7.81	MAR 6.81	*****	0.08	*****	*****	*****	0.008	0.0115
MAR 11.81	MAR 10.81	*****	U 0.21	*****	*****	*****	0.316	U 0.0200
MAR 12.81	MAR 11.81	*****	0.15	*****	*****	*****	*****	0.0275
MAR 14.81	MAR 13.81	*****	*****	*****	*****	*****	*****	******
MAR 16.81	MAR 15.81	1.65	0.30	0.185	0.040	0.190	U 1.260	U 0.0002
MAR 17.81	MAR 16.81	0.84	0.12	0.085	0.010	0.060	0.180	0.0003
MAR 20.81	MAR 19.81	U 0.78	0.66	0.035	0.040	0.410	0.002	U 0.0005
MAR 27.81	MAR 26.81	0.58	0.26	0.070	0.030	0.070	0.910	0.0871
MAR 30.81	MAR 29.81	0.55	0.23	0.085	0.040	0.200	0.580	0.0562
MAR 31.81	MAR 30.81	0.23	0.11	0.035	0.050	0.080	0.670	0.0468
APR 2.81	APR 1.81	1.13	0.28	0.135	0.060	0.140	0.820	0.0407
APR 4.81	APR 3.81	2.09	0.44	0.235	0.120	0.260	0.660	0.0110
APR 9.81	APR 8.81	U 8.30	0.92	U 0.950	0.270	0.510	1.260	U 0.0001
APR 11.81	APR 10.81	1.05	0.34	0.135	0.050	0.190	0.670	0.0501
APR 14.81	APR 13.81	0.32	0.08	0.025	0.040	0.150	0.264	0.0427
APR 15.81	APR 14.81	0.11	U 0.28	U 0.015	0.090	0.100	0.204	0.0457
APR 17.81	APR 16.81	U 2.22	0.16	0.240	0.210	0.240	0.620	U 0.0006
APR 18.81	APR 17.81	0.55	0.20	0.085	0.050	0.140	1.050	0.0288
APR 20.81	APR 19.81	0.60	0.10	0.070	0.040	0.060	0.750	0.0363
APR 23.81	APR 22.81	*****	0.54	*****	*****	*****	*****	U 0.0000
APR 24.81	APR 23.81	0.11	0.16	0.020	0.030	0.060	0.690	0.1413
APR 25.81	APR 24.81	0.08	0.04	<T 0.005	<T 0.010	0.010	0.158	0.0316

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/SES #05 PAGE : 4

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
APR 29.81	APR 28.81	930	930	2400	200	1	4.2	1	2096	2	1	110	D	
NOV 6.81	NOV 5.81	830	830	500	800	1	2.0	1	28662	2	1	78		
NOV 7.81	NOV 6.81	830	830	1200	1700	3	4.0	1	28663	2	1	83	C	
NOV 11.81	NOV 10.81	830	830	2000	2200	3	0.6	1	28664	2	1	115	C	
NOV 17.81	NOV 16.81	830	830	1100	2400	1	24.0	2	28665	2	1	146		N
NOV 18.81	NOV 17.81	830	830	1100	1400	1	2.0	2	28666	2	1	52	C	
NOV 20.81	NOV 19.81	830	830	530	830	2	9.0	2	28667	2	1	78		
NOV 21.81	NOV 20.81	830	830	1400	1700	3	11.0	2	28668	2	1	97		
NOV 23.81	NOV 22.81	830	830	1000	1600	2	2.0	2	28669	2	1	36	C	N
NOV 27.81	NOV 26.81	830	830	2200	2400	1	15.0	2	28670	2	1	107	C	
NOV 30.81	NOV 29.81	830	830	300	400	2	0.5	2	28671	2	1	48	C	N
DEC 2.81	DEC 1.81	830	830	1500	1700	1	1.2	2	28672	2	1	137	C	N
DEC 8.81	DEC 7.81	830	830	1800	2000	2	3.5	2	28673	2	1	30	CG	N
DEC 11.81	DEC 10.81	830	830	900	1200	2	2.0	2	28674	2	1	12	C	N
DEC 14.81	DEC 13.81	830	830	****	****	2	0.5	2	28675	2	1	30	C	N
DEC 15.81	DEC 14.81	830	830	1300	1600	2	2.0	2	28676	2	1	82	C	
DEC 17.81	DEC 16.81	830	830	900	1100	2	0.2	2	28677	2	1	61	C	
DEC 19.81	DEC 18.81	830	830	2100	2300	2	****	2	28678	2	1	****	E	
DEC 23.81	DEC 21.81	830	830	1200	1530	2	16.0	2	28679	2	1	79	G	Z
DEC 26.81	DEC 25.81	830	830	200	300	2	****	2	28680	2	1	****	E	
DEC 28.81	DEC 27.81	830	830	1400	1700	2	6.0	2	28681	2	1	64	CG	
DEC 29.81	DEC 28.81	830	830	1500	2200	2	4.0	2	28682	2	1	54	CG	
JAN 1.82	DEC 31.81	830	830	2000	2300	3	9.0	2	28683	2	1	67		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/SES #05 PAGE : 5

REMOVAL DATE	EXPOSURE DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
APR 29,81	APR 28,81		763.	44.0	4.05		4.32	0.0888	6.35	1.08
NOV 6,81	NOV 5,81		259.	84.5	*****		3.84	0.1910	7.00	1.87
NOV 7,81	NOV 6,81		550.	13.5	4.48		4.64	0.0532	1.00	0.14
NOV 11,81	NOV 10,81		114.	*****	*****		4.50	******	5.65	2.64
NOV 17,81	NOV 16,81		5750.	5.9	4.76		4.98	0.0398	0.55	0.04
NOV 18,81	NOV 17,81		172.	*****	*****		4.34	******	2.35	0.21
NOV 20,81	NOV 19,81		1155.	14.9	4.45		4.51	0.0780	1.05	0.24
NOV 21,81	NOV 20,81		1755.	28.5	4.22		4.20	0.1090	1.80	0.48
NOV 23,81	NOV 22,81	U	120.	*****	*****		4.32	******	2.20	0.06
NOV 27,81	NOV 26,81		2655.	35.8	4.11		4.15	0.1240	2.90	0.52
NOV 30,81	NOV 29,81	U	40.	*****	*****	U	4.32	******	0.30	0.27
DEC 2,81	DEC 1,81		270.	55.8	*****		4.07	0.1416	4.95	1.32
DEC 8,81	DEC 7,81	U	175.	*****	*****		4.00	******	6.65	2.90
DEC 11,81	DEC 10,81	U	40.	*****	*****	U	6.81	******	4.00	0.13
DEC 14,81	DEC 13,81	U	25.	*****	*****		4.12	******	*****	*****
DEC 15,81	DEC 14,81		270.	67.0	*****		3.90	******	4.25	1.51
DEC 17,81	DEC 16,81		20.	*****	*****	U	7.43	******	*****	*****
DEC 19,81	DEC 18,81		*****	*****	*****		*****	******	*****	*****
DEC 23,81	DEC 21,81		2080.	14.7	4.56		4.68	******	1.15	0.43
DEC 26,81	DEC 25,81		*****	*****	*****		*****	******	*****	*****
DEC 28,81	DEC 27,81		630.	25.4	4.19		4.32	******	1.35	0.76
DEC 29,81	DEC 28,81		355.	27.0	4.18		4.23	0.0986	0.95	0.67
JAN 1,82	DEC 31,81		995.	31.5	4.15		4.18	0.1174	2.45	0.60

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/SES #05

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
APR 29.81	APR 28.81	U 1.85	0.17	0.090	0.080	0.080	0.810	0.0479
NOV 6.81	NOV 5.81	1.10	0.30	0.095	0.070	0.150	1.070	0.1445
NOV 7.81	NOV 6.81	0.10	0.03	<T 0.005	<T 0.010	0.020	0.084	0.0229
NOV 11.81	NOV 10.81	3.20	0.58	0.525	0.130	0.130	1.010	0.0316
NOV 17.81	NOV 16.81	0.02	0.02	0.005	<T 0.010	0.020	0.064	0.0105
NOV 18.81	NOV 17.81	0.16	0.08	0.010	0.040	0.120	0.304	0.0457
NOV 20.81	NOV 19.81	0.10	<T 0.01	0.005	<T 0.010	0.020	0.162	0.0309
NOV 21.81	NOV 20.81	0.08	0.07	<T 0.005	0.010	0.100	0.236	0.0631
NOV 23.81	NOV 22.81	0.09	0.05	0.005	<T 0.010	0.090	0.044	0.0479
NOV 27.81	NOV 26.81	0.21	0.08	0.005	0.010	0.080	0.380	0.0708
NOV 30.81	NOV 29.81	*****	0.40	*****	*****	*****	*****	U 0.0479
DEC 2.81	DEC 1.81	1.05	0.24	0.045	0.080	0.080	0.870	0.0851
DEC 8.81	DEC 7.81	2.70	0.96	0.170	U 0.300	0.330	1.820	0.1000
DEC 11.81	DEC 10.81	*****	1.53	*****	*****	*****	*****	U 0.0002
DEC 14.81	DEC 13.81	*****	*****	*****	*****	*****	*****	0.0759
DEC 15.81	DEC 14.81	0.64	0.54	0.065	0.050	0.210	0.620	0.1259
DEC 17.81	DEC 16.81	*****	*****	*****	*****	*****	*****	U 0.0000
DEC 19.81	DEC 18.81	*****	*****	*****	*****	*****	*****	******
DEC 23.81	DEC 21.81	0.50	0.35	0.045	0.040	0.190	*****	0.0209
DEC 26.81	DEC 25.81	*****	*****	*****	*****	*****	*****	******
DEC 28.81	DEC 27.81	0.31	0.15	0.015	0.030	0.080	*****	0.0479
DEC 29.81	DEC 28.81	0.16	0.24	0.010	0.020	0.110	*****	0.0589
JAN 1.82	DEC 31.81	0.34	U 0.21	0.020	0.030	0.150	0.326	0.0661

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06 PAGE : 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
NOV 22.80	NOV 21.80	800	800	****	****	1	3.0	1	441	2	1	71		
NOV 24.80	NOV 23.80	800	800	****	****	1	1.0	1	442	2	1	88		
NOV 25.80	NOV 24.80	800	800	****	****	3	****	*	443	2	1	****		L
NOV 26.80	NOV 25.80	800	800	****	****	2	****	*	444	2	1	****		L
NOV 29.80	NOV 28.80	800	800	****	****	2	****	*	445	2	1	****		M
NOV 30.80	NOV 29.80	800	800	****	****	2	****	*	446	2	1	****		
DEC 2.80	DEC 1.80	800	800	****	****	2	****	*	447	2	1	****		L
DEC 3.80	DEC 2.80	800	800	****	****	1	26.0	1	448	2	1	78		
DEC 8.80	DEC 7.80	800	800	****	****	1	11.0	1	449	2	1	59		CM
DEC 9.80	DEC 8.80	800	800	****	****	1	16.0	1	450	2	1	80		CM
DEC 11.80	DEC 10.80	800	800	****	****	2	****	*	451	2	1	****		
DEC 12.80	DEC 11.80	800	800	****	****	2	****	*	452	2	1	****		
DEC 13.80	DEC 12.80	800	800	****	****	2	****	*	453	2	1	****		CM
DEC 14.80	DEC 13.80	800	800	****	****	2	****	*	454	2	1	****		
DEC 18.80	DEC 17.80	800	815	****	****	2	****	*	455	2	1	****		
DEC 19.80	DEC 18.80	845	900	1045	****	2	****	*	2536	2	1	****		
DEC 21.80	DEC 20.80	1130	1115	1100	****	2	****	*	2496	2	1	****	E	
DEC 24.80	DEC 23.80	720	755	****	****	2	****	*	456	2	1	****		M
DEC 29.80	DEC 28.80	740	755	****	****	2	****	*	457	2	1	****		M
JAN 2.81	JAN 1.81	740	755	****	****	2	****	*	458	2	1	****		
JAN 7.81	JAN 6.81	740	755	****	****	2	****	*	459	2	1	****		CM
JAN 16.81	JAN 15.81	740	755	****	****	2	****	*	460	2	1	****		
JAN 26.81	JAN 25.81	740	755	****	****	1	****	*	2537	2	1	****		M
MAY 6.81	MAY 5.81	840	855	2100	300	1	3.0	1	28301	2	1	82		
MAY 10.81	MAY 9.81	915	930	800	930	1	2.1	1	28302	2	1	101		
MAY 11.81	MAY 10.81	840	855	900	900	1	15.1	1	28303	2	1	95	AD	
MAY 12.81	MAY 11.81	840	855	****	****	1	10.3	1	28304	2	1	94	D	J
MAY 15.81	MAY 14.81	840	855	1900	500	1	2.4	1	28305	2	1	89		
MAY 16.81	MAY 15.81	1000	1015	****	****	1	1.1	1	28306	2	1	49		N
MAY 26.81	MAY 25.81	900	845	****	****	1	3.2	1	28307	2	1	82		
MAY 27.81	MAY 26.81	820	855	****	****	1	2.3	1	28308	2	1	91	D	
MAY 28.81	MAY 27.81	855	840	2300	400	1	6.0	1	28309	2	1	89		
MAY 30.81	MAY 29.81	900	1045	200	600	1	6.0	1	28310	2	1	97		
JUN 3.81	JUN 2.81	855	840	****	****	1	1.0	1	28311	2	1	74		
JUN 4.81	JUN 3.81	855	840	855	840	1	3.2	1	28312	2	1	83		
JUN 9.81	JUN 8.81	845	850	****	****	1	20.0	1	28313	2	1	97	D	
JUN 11.81	JUN 10.81	815	840	****	****	1	3.0	1	28314	2	1	55		
JUN 13.81	JUN 12.81	900	900	1400	1700	1	0.4	1	28315	2	1	105		
JUN 16.81	JUN 15.81	830	855	1600	1800	1	22.5	1	28316	2	1	116	G	
JUN 17.81	JUN 16.81	855	845	1800	1900	1	1.3	1	28317	2	1	86		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 UG/L	SULPHATE MG/L	NITRATE AS N MG/L
NOV 22.80	NOV 21.80	137.	31.5	*****	4.29	******	2.60	0.90
NOV 24.80	NOV 23.80	57.	52.0	*****	4.28	******	3.40	0.91
NOV 25.80	NOV 24.80	115.	42.6	*****	4.28	******	2.80	0.95
NOV 26.80	NOV 25.80	155.	9.8	*****	4.76	******	0.20	0.41
NOV 29.80	NOV 28.80	250.	18.5	*****	4.33	******	0.90	0.48
NOV 30.80	NOV 29.80	435.	6.8	4.67	4.84	0.0472	0.55	0.11
DEC 2.80	DEC 1.80	334.	41.3	*****	4.00	0.1198	1.85	1.16
DEC 3.80	DEC 2.80	1304.	26.5	4.26	4.20	0.0846	1.70	0.32
DEC 8.80	DEC 7.80	421.	31.5	3.98	4.03	0.1240	2.30	0.44
DEC 9.80	DEC 8.80	826.	17.6	4.24	4.28	0.0914	1.50	0.16
DEC 11.80	DEC 10.80	255.	4.7	*****	5.33	******	0.55	0.16
DEC 12.80	DEC 11.80	11.	*****	*****	*****	******	*****	*****
DEC 13.80	DEC 12.80	454.	14.8	4.33	4.34	0.0762	0.60	0.40
DEC 14.80	DEC 13.80	110.	*****	*****	4.85	******	0.60	0.15
DEC 18.80	DEC 17.80	89.	*****	*****	4.43	******	0.60	0.53
DEC 19.80	DEC 18.80	72.	*****	*****	4.97	******	*****	*****
DEC 21.80	DEC 20.80	31.	*****	*****	*****	******	*****	*****
DEC 24.80	DEC 23.80	349.	16.6	4.20	4.54	0.0528	0.60	0.47
DEC 29.80	DEC 28.80	445.	14.7	4.23	4.53	0.0514	0.25	0.36
JAN 2.81	JAN 1.81	92.	*****	*****	4.53	******	0.20	0.34
JAN 7.81	JAN 6.81	226.	14.4	*****	4.47	0.0580	0.00	> 2.00
JAN 16.81	JAN 15.81	74.	*****	*****	3.75	******	U 3.25	U 0.55
JAN 26.81	JAN 25.81	159.	45.3	*****	4.00	0.1308	0.60	0.82
MAY 6.81	MAY 5.81	159.	*****	*****	4.37	******	2.45	0.46
MAY 10.81	MAY 9.81	137.	*****	*****	3.72	******	8.40	1.39
MAY 11.81	MAY 10.81	924.	38.0	U 4.81	U 6.02	0.1380	U 7.30	U 0.84
MAY 12.81	MAY 11.81	626.	18.0	U 4.90	4.37	0.0772	1.60	0.23
MAY 15.81	MAY 14.81	137.	*****	*****	4.24	******	2.75	0.28
MAY 16.81	MAY 15.81	U 35.	*****	*****	3.56	******	11.50	1.54
MAY 26.81	MAY 25.81	170.	*****	*****	4.19	******	2.70	0.38
MAY 27.81	MAY 26.81	135.	*****	*****	5.92	******	2.20	0.54
MAY 28.81	MAY 27.81	344.	45.9	3.95	3.95	0.1376	4.40	0.52
MAY 30.81	MAY 29.81	374.	40.0	4.11	4.15	0.1056	4.85	0.71
JUN 3.81	JUN 2.81	48.	*****	*****	3.52	******	14.20	1.95
JUN 4.81	JUN 3.81	172.	*****	*****	3.59	******	12.50	1.52
JUN 9.81	JUN 8.81	1247.	33.1	4.32	4.36	0.0824	4.70	0.62
JUN 11.81	JUN 10.81	106.	*****	*****	4.65	******	1.80	0.25
JUN 13.81	JUN 12.81	27.	*****	*****	5.86	******	*****	*****
JUN 16.81	JUN 15.81	1674.	12.5	4.67	4.79	0.0458	1.25	0.23
JUN 17.81	JUN 16.81	72.	*****	*****	5.45	******	*****	0.69

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06 PAGE : 3

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
NOV 22.80	NOV 21.80	0.47	0.17	0.075	0.040	0.030	*****	0.0513
NOV 24.80	NOV 23.80	*****	0.39	*****	*****	*****	*****	0.0525
NOV 25.80	NOV 24.80	0.12	U 2.58	0.020	0.320	U 1.000	*****	0.0525
NOV 26.80	NOV 25.80	0.21	0.02	0.015	0.040	0.020	0.112	0.0174
NOV 29.80	NOV 28.80	0.03	0.55	< 0.005	0.010	0.030	0.092	0.0468
NOV 30.80	NOV 29.80	0.02	0.03	< 0.005	0.010	0.020	0.102	0.0145
DEC 2.80	DEC 1.80	0.15	0.23	0.010	0.020	0.040	0.380	0.1000
DEC 3.80	DEC 2.80	0.02	0.08	< 0.005	0.010	0.010	0.214	0.0631
DEC 8.80	DEC 7.80	0.05	0.05	0.005	< 0.010	0.020	0.210	0.0933
DEC 9.80	DEC 8.80	0.01	0.02	< 0.005	< 0.010	0.010	0.076	0.0525
DEC 11.80	DEC 10.80	0.41	< 0.01	0.010	0.010	0.030	0.056	0.0047
DEC 12.80	DEC 11.80	*****	*****	*****	*****	*****	*****	******
DEC 13.80	DEC 12.80	0.06	0.06	0.005	< 0.010	0.020	0.114	0.0457
DEC 14.80	DEC 13.80	*****	0.05	*****	*****	*****	0.042	0.0141
DEC 18.80	DEC 17.80	0.30	0.42	0.045	0.040	0.110	0.062	0.0372
DEC 19.80	DEC 18.80	0.17	*****	0.015	0.010	0.060	0.050	0.0107
DEC 21.80	DEC 20.80	*****	*****	*****	*****	*****	*****	******
DEC 24.80	DEC 23.80	0.03	0.19	0.010	0.010	0.050	0.154	0.0288
DEC 29.80	DEC 28.80	0.04	0.70	< 0.005	0.020	0.080	0.082	0.0295
JAN 2.81	JAN 1.81	*****	0.13	*****	< 0.010	0.030	0.028	0.0295
JAN 7.81	JAN 6.81	0.03	0.51	0.010	0.020	0.020	0.044	0.0339
JAN 16.81	JAN 15.81	0.08	0.35	< 0.005	< 0.010	0.040	*****	0.1778
JAN 26.81	JAN 25.81	0.15	0.25	0.010	<T 0.010	0.140	0.014	0.1000
MAY 6.81	MAY 5.81	0.42	0.12	0.070	0.010	0.030	0.254	0.0427
MAY 10.81	MAY 9.81	0.79	0.31	0.120	0.020	0.050	0.410	0.1905
MAY 11.81	MAY 10.81	U 0.49	U 0.67	U 0.110	0.700	U 0.570	U 3.300	U 0.0010
MAY 12.81	MAY 11.81	0.10	0.58	0.005	0.010	0.060	0.130	0.0427
MAY 15.81	MAY 14.81	*****	U 0.06	*****	*****	*****	0.042	0.0575
MAY 16.81	MAY 15.81	*****	0.40	*****	*****	*****	*****	0.2754
MAY 26.81	MAY 25.81	0.21	0.12	0.020	0.030	0.040	0.284	0.0646
MAY 27.81	MAY 26.81	*****	0.09	*****	*****	*****	0.900	0.0012
MAY 28.81	MAY 27.81	0.03	0.11	0.005	0.030	0.030	0.284	0.1122
MAY 30.81	MAY 29.81	0.37	0.26	0.060	0.030	0.110	0.820	0.0788
JUN 3.81	JUN 2.81	*****	0.51	*****	*****	*****	*****	0.3020
JUN 4.81	JUN 3.81	0.49	0.36	0.075	0.030	0.040	1.010	0.2570
JUN 9.81	JUN 8.81	0.95	0.22	0.145	0.050	0.090	0.630	0.0437
JUN 11.81	JUN 10.81	0.24	0.61	0.030	0.040	0.560	0.072	0.0224
JUN 13.81	JUN 12.81	*****	*****	*****	*****	*****	*****	0.0014
JUN 16.81	JUN 15.81	0.12	0.23	0.025	0.020	0.120	0.254	0.0162
JUN 17.81	JUN 16.81	*****	0.25	*****	*****	*****	*****	0.0035

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JUN 22.81	JUN 21.81	855	840	500	840	1	16.3	1	28318	2	1	102		
JUN 23.81	JUN 22.81	855	840	****	****	1	21.2	1	28319	2	1	97		
JUN 25.81	JUN 24.81	855	845	130	1530	1	0.3	1	28320	2	1	187		N
JUN 26.81	JUN 25.81	845	855	130	2345	1	0.4	1	28321	2	1	120		N
JUN 30.81	JUN 29.81	855	845	1950	2200	1	6.0	1	28322	2	1	103		
JUL 2.81	JUL 1.81	855	845	945	1245	1	1.0	1	28323	2	1	26	C	N
JUL 3.81	JUL 2.81	855	845	1730	1900	1	0.4	1	28324	2	1	46	C	N
JUL 6.81	JUL 5.81	855	845	1500	1600	1	0.3	1	28325	2	1	119		
JUL 18.81	JUL 17.81	855	1145	2045	2200	1	6.4	1	28326	2	1	91		
JUL 20.81	JUL 19.81	850	840	1730	400	1	2.3	1	28327	2	1	82	C	
JUL 29.81	JUL 28.81	850	845	1100	855	1	20.0	1	28328	2	1	94		
AUG 4.81	AUG 3.81	845	850	****	****	1	4.0	1	28329	2	1	83		
AUG 5.81	AUG 4.81	830	845	130	2345	1	8.0	1	28330	2	1	87		
AUG 9.81	AUG 8.81	830	930	200	1800	1	12.2	1	28331	2	1	93	A	
AUG 11.81	AUG 10.81	850	845	1400	845	1	11.0	1	28332	2	1	86	G	
AUG 15.81	AUG 14.81	850	1015	35	1015	1	31.2	1	28333	2	1	71		
AUG 16.81	AUG 15.81	1015	1030	1015	1230	1	3.3	1	28334	2	1	89		
AUG 24.81	AUG 23.81	855	845	2030	2300	1	4.0	1	28335	2	1	76		
AUG 27.81	AUG 26.81	845	850	730	850	1	2.2	1	28336	2	1	97		
AUG 29.81	AUG 28.81	855	1030	1930	600	1	7.4	1	28337	2	1	95		
SEP 2.81	SEP 1.81	850	845	230	845	1	12.2	1	28338	2	1	91		
SEP 3.81	SEP 2.81	845	855	845	1230	1	2.4	1	28339	2	1	104		
SEP 4.81	SEP 3.81	850	855	2300	855	1	19.2	1	28340	2	1	95	B	
SEP 5.81	SEP 4.81	855	1010	2330	800	1	20.2	1	28341	2	1	98	C	
SEP 6.81	SEP 5.81	1010	1100	1900	2300	1	1.1	1	28342	2	1	****	E	
SEP 8.81	SEP 7.81	855	845	1230	845	1	28.6	1	28343	2	1	74		
SEP 9.81	SEP 8.81	850	855	850	855	1	8.0	1	28344	2	1	90		
SEP 10.81	SEP 9.81	855	845	2400	800	1	2.1	1	28345	2	1	89	CJ	
SEP 11.81	SEP 10.81	855	845	930	1115	1	2.0	1	28346	2	1	106	C	
SEP 27.81	SEP 26.81	855	855	930	730	1	22.0	1	28347	2	1	99		
SEP 28.81	SEP 27.81	955	845	1230	530	1	1.2	1	28348	2	1	83		
OCT 2.81	OCT 1.81	855	845	1100	800	1	8.0	1	28349	2	1	77		
OCT 5.81	OCT 4.81	855	845	730	830	1	1.4	1	28350	2	1	74		
OCT 6.81	OCT 5.81	845	850	600	845	1	5.3	1	28351	2	1	110		
OCT 7.81	OCT 6.81	850	855	930	1730	1	15.4	1	28352	2	1	71		
OCT 8.81	OCT 7.81	855	845	1015	1500	1	1.4	1	28353	2	1	22		N
OCT 16.81	OCT 15.81	850	845	930	1230	1	1.4	1	28354	2	1	27		N
OCT 18.81	OCT 17.81	930	1130	315	1030	1	14.1	1	28355	2	1	108		N
OCT 19.81	OCT 18.81	1130	740	****	****	1	3.0	1	28356	2	1	63		
OCT 22.81	OCT 21.81	850	845	2300	700	2	****	*	28357	2	1	****		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06

REMOVAL DATE	EXPOSURE DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JUN 22.81	JUN 21.81		1066.	16.8	4.35		4.47	0.0680	1.50	0.21
JUN 23.81	JUN 22.81		1320.	11.3	4.52		4.58	0.0610	1.15	0.05
JUN 25.81	JUN 24.81		36.	*****	*****		4.58	******	*****	*****
JUN 26.81	JUN 25.81		31.	*****	*****		4.26	******	*****	*****
JUN 30.81	JUN 29.81		398.	30.5	4.30		4.33	0.0830	4.20	0.52
JUL 2.81	JUL 1.81	U	17.	*****	*****		3.98	******	*****	*****
JUL 3.81	JUL 2.81	U	12.	*****	*****		4.68	******	*****	*****
JUL 6.81	JUL 5.81		23.	*****	*****		4.02	******	*****	*****
JUL 18.81	JUL 17.81		375.	21.0	4.62		4.83	0.0462	3.20	0.58
JUL 20.81	JUL 19.81		122.	*****	*****		3.43	******	14.50	1.80
JUL 29.81	JUL 28.81		1215.	24.0	4.12		4.28	0.0852	2.15	0.23
AUG 4.81	AUG 3.81		215.	*****	*****		4.45	0.0644	1.65	0.27
AUG 5.81	AUG 4.81		447.	30.9	4.08		4.22	0.0898	3.55	0.39
AUG 9.81	AUG 8.81		728.	40.7	3.91		4.08	0.1154	3.75	0.43
AUG 11.81	AUG 10.81		610.	26.4	4.15		4.33	0.0808	2.45	0.44
AUG 15.81	AUG 14.81		1420.	*****	*****		4.14	******	*****	*****
AUG 16.81	AUG 15.81		190.	*****	*****		3.96	******	5.70	0.34
AUG 24.81	AUG 23.81		197.	*****	*****		4.08	******	4.90	0.52
AUG 27.81	AUG 26.81		138.	*****	*****		4.07	******	4.90	0.70
AUG 29.81	AUG 28.81		451.	97.0	3.53		3.70	0.2510	10.50	0.53
SEP 2.81	SEP 1.81		719.	45.4	3.83		3.98	0.1276	4.05	0.52
SEP 3.81	SEP 2.81		161.	*****	*****		3.88	******	7.60	0.61
SEP 4.81	SEP 3.81		1170.	46.0	3.81		3.98	0.1330	4.05	0.43
SEP 5.81	SEP 4.81		1273.	29.7	4.14		4.16	0.0936	2.45	0.29
SEP 6.81	SEP 5.81		*****	*****	*****		*****	******	*****	*****
SEP 8.81	SEP 7.81		1366.	26.5	4.22		4.26	0.0796	2.40	0.34
SEP 9.81	SEP 8.81		464.	31.0	4.12		4.12	0.0980	2.35	0.35
SEP 10.81	SEP 9.81		120.	*****	*****	U	6.14	******	2.20	0.33
SEP 11.81	SEP 10.81		137.	*****	*****		6.14	******	4.10	0.64
SEP 27.81	SEP 26.81		1401.	73.0	3.79		3.83	0.1824	7.30	0.74
SEP 28.81	SEP 27.81		64.	*****	*****		5.33	******	1.35	0.14
OCT 2.81	OCT 1.81		397.	21.0	4.33		4.39	0.0750	1.85	0.24
OCT 5.81	OCT 4.81		67.	*****	*****		4.32	******	2.00	0.28
OCT 6.81	OCT 5.81		374.	34.0	4.08		4.13	0.1070	2.20	0.60
OCT 7.81	OCT 6.81		704.	26.2	4.20		4.27	0.0856	2.00	0.35
OCT 8.81	OCT 7.81	U	20.	*****	*****		4.47	******	*****	*****
OCT 16.81	OCT 15.81	U	25.	*****	*****		4.15	******	*****	*****
OCT 18.81	OCT 17.81		984.	21.3	4.28		4.38	0.0726	1.60	0.24
OCT 19.81	OCT 18.81	U	123.	*****	*****	U	5.04	******	0.80	0.07
OCT 22.81	OCT 21.81		303.	7.0	*****		4.78	0.0480	0.60	0.10

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JUN 22.81	JUN 21.81	855	840	500	840	1	16.3	1	28318	2	1	102		
JUN 23.81	JUN 22.81	855	840	****	****	1	21.2	1	28319	2	1	97		
JUN 25.81	JUN 24.81	855	845	130	1530	1	0.3	1	28320	2	1	187		N
JUN 26.81	JUN 25.81	845	855	130	2345	1	0.4	1	28321	2	1	120		N
JUN 30.81	JUN 29.81	855	845	1950	2200	1	6.0	1	28322	2	1	103		
JUL 2.81	JUL 1.81	855	845	945	1245	1	1.0	1	28323	2	1	26	C	N
JUL 3.81	JUL 2.81	855	845	1730	1900	1	0.4	1	28324	2	1	46	C	N
JUL 6.81	JUL 5.81	855	845	1500	1600	1	0.3	1	28325	2	1	119		
JUL 18.81	JUL 17.81	855	1145	2045	2200	1	6.4	1	28326	2	1	91		
JUL 20.81	JUL 19.81	850	840	1730	400	1	2.3	1	28327	2	1	82	C	
JUL 29.81	JUL 28.81	850	845	1100	855	1	20.0	1	28328	2	1	94		
AUG 4.81	AUG 3.81	845	850	****	****	1	4.0	1	28329	2	1	83		
AUG 5.81	AUG 4.81	830	845	130	2345	1	8.0	1	28330	2	1	87		
AUG 9.81	AUG 8.81	830	930	200	1800	1	12.2	1	28331	2	1	93	A	
AUG 11.81	AUG 10.81	850	845	1400	845	1	11.0	1	28332	2	1	86		
AUG 15.81	AUG 14.81	850	1015	35	1015	1	31.2	1	28333	2	1	71	B	
AUG 16.81	AUG 15.81	1015	1030	1015	1230	1	3.3	1	28334	2	1	89		
AUG 24.81	AUG 23.81	855	845	2030	2300	1	4.0	1	28335	2	1	76		
AUG 27.81	AUG 26.81	845	850	730	850	1	2.2	1	28336	2	1	97		
AUG 29.81	AUG 28.81	855	1030	1930	600	1	7.4	1	28337	2	1	98		
SEP 2.81	SEP 1.81	850	845	230	845	1	12.2	1	28338	2	1	91		
SEP 3.81	SEP 2.81	845	855	845	1230	1	2.4	1	28339	2	1	104		
SEP 4.81	SEP 3.81	850	855	2300	855	1	19.2	1	28340	2	1	95	B	
SEP 5.81	SEP 4.81	855	1010	2330	800	1	20.2	1	28341	2	1	98	C	
SEP 6.81	SEP 5.81	1010	1100	1900	2300	1	1.1	1	28342	2	1	****	E	
SEP 8.81	SEP 7.81	855	845	1230	845	1	28.6	1	28343	2	1	74		
SEP 9.81	SEP 8.81	850	855	850	855	1	8.0	1	28344	2	1	90		
SEP 10.81	SEP 9.81	855	845	2400	800	1	2.1	1	28345	2	1	89	CJ	
SEP 11.81	SEP 10.81	855	845	930	1115	1	2.0	1	28346	2	1	106	C	
SEP 27.81	SEP 26.81	855	855	930	730	1	22.0	1	28347	2	1	99		
SEP 28.81	SEP 27.81	955	845	1230	530	1	1.2	1	28348	2	1	83		
OCT 2.81	OCT 1.81	855	845	1100	800	1	8.0	1	28349	2	1	77		
OCT 5.81	OCT 4.81	855	845	730	830	1	1.4	1	28350	2	1	74		
OCT 6.81	OCT 5.81	845	850	600	845	1	5.3	1	28351	2	1	110		
OCT 7.81	OCT 6.81	850	855	930	1730	1	15.4	1	28352	2	1	71		
OCT 8.81	OCT 7.81	855	845	1015	1500	1	1.4	1	28353	2	1	22		N
OCT 16.81	OCT 15.81	850	845	930	1230	1	1.4	1	28354	2	1	27		N
OCT 18.81	OCT 17.81	930	1130	315	1030	1	14.1	1	28355	2	1	108		
OCT 19.81	OCT 18.81	1130	740	****	****	1	3.0	1	28356	2	1	63		N
OCT 22.81	OCT 21.81	850	845	2300	700	2	****	*	28357	2	1	****		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06

REMOVAL DATE	EXPOSURE DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JUN 22.81	JUN 21.81		1066.	16.8	4.35		4.47	0.0680	1.50	0.21
JUN 23.81	JUN 22.81		1320.	11.3	4.52		4.58	0.0610	1.15	0.05
JUN 25.81	JUN 24.81		36.	*****	*****		4.58	******	*****	*****
JUN 26.81	JUN 25.81		31.	*****	*****		4.26	******	*****	*****
JUN 30.81	JUN 29.81		398.	30.5	4.30		4.33	0.0830	4.20	0.52
JUL 2.81	JUL 1.81	U	17.	*****	*****		3.98	******	*****	*****
JUL 3.81	JUL 2.81	U	12.	*****	*****		4.68	******	*****	*****
JUL 6.81	JUL 5.81		23.	*****	*****		4.02	******	*****	*****
JUL 18.81	JUL 17.81		375.	21.0	4.62		4.83	0.0462	3.20	0.58
JUL 20.81	JUL 19.81		122.	*****	*****		3.43	******	14.50	1.80
JUL 29.81	JUL 28.81		1215.	24.0	4.12		4.28	0.0852	2.15	0.23
AUG 4.81	AUG 3.81		215.	*****	*****		4.45	0.0644	1.65	0.27
AUG 5.81	AUG 4.81		447.	30.9	4.08		4.22	0.0898	3.55	0.39
AUG 9.81	AUG 8.81		728.	40.7	3.91		4.08	0.1154	3.75	0.43
AUG 11.81	AUG 10.81		610.	26.4	4.15		4.33	0.0808	2.45	0.44
AUG 15.81	AUG 14.81		1420.	*****	*****		4.14	******	*****	*****
AUG 16.81	AUG 15.81		190.	*****	*****		3.96	******	5.70	0.34
AUG 24.81	AUG 23.81		197.	*****	*****		4.08	******	4.90	0.52
AUG 27.81	AUG 26.81		138.	*****	*****		4.07	******	4.90	0.70
AUG 29.81	AUG 28.81		451.	97.0	3.53		3.70	0.2510	10.50	0.53
SEP 2.81	SEP 1.81		719.	45.4	3.83		3.98	0.1276	4.05	0.52
SEP 3.81	SEP 2.81		161.	*****	*****		3.88	******	7.60	0.61
SEP 4.81	SEP 3.81		1170.	46.0	3.81		3.98	0.1330	4.05	0.43
SEP 5.81	SEP 4.81		1273.	29.7	4.14		4.16	0.0936	2.45	0.29
SEP 6.81	SEP 5.81		*****	*****	*****		*****	******	*****	*****
SEP 8.81	SEP 7.81		1366.	26.5	4.22		4.26	0.0796	2.40	0.34
SEP 9.81	SEP 8.81		464.	31.0	4.12		4.12	0.0980	2.35	0.35
SEP 10.81	SEP 9.81		120.	*****	*****	U	6.14	******	2.20	0.33
SEP 11.81	SEP 10.81		137.	*****	*****		6.14	******	4.10	0.64
SEP 27.81	SEP 26.81		1401.	73.0	3.79		3.83	0.1824	7.30	0.74
SEP 28.81	SEP 27.81		64.	*****	*****		5.33	******	1.35	0.14
OCT 2.81	OCT 1.81		397.	21.0	4.33		4.39	0.0750	1.85	0.24
OCT 5.81	OCT 4.81		67.	*****	*****		4.32	******	2.00	0.28
OCT 6.81	OCT 5.81		374.	34.0	4.08		4.13	0.1070	2.20	0.60
OCT 7.81	OCT 6.81		704.	26.2	4.20		4.27	0.0856	2.00	0.35
OCT 8.81	OCT 7.81	U	20.	*****	*****		4.47	******	*****	*****
OCT 16.81	OCT 15.81	U	25.	*****	*****		4.15	******	*****	*****
OCT 18.81	OCT 17.81		984.	21.3	4.28		4.38	0.0726	1.60	0.24
OCT 19.81	OCT 18.81	U	123.	*****	*****	U	5.04	******	0.80	0.07
OCT 22.81	OCT 21.81		303.	7.0	*****		4.78	0.0480	0.60	0.10

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06 PAGE : 6

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JUN 22.81	JUN 21.81	0.01	0.01	0.015	<T 0.010	0.010	0.220	0.0339
JUN 23.81	JUN 22.81	0.02	0.05	0.010	0.030	0.020	0.084	0.0263
JUN 25.81	JUN 24.81	*****	*****	*****	*****	*****	*****	0.0263
JUN 26.81	JUN 25.81	*****	*****	*****	*****	*****	*****	0.0550
JUN 30.81	JUN 29.81	0.70	0.12	0.110	0.010	0.020	0.690	0.0468
JUL 2.81	JUL 1.81	*****	*****	*****	*****	*****	*****	0.1047
JUL 3.81	JUL 2.81	*****	*****	*****	*****	*****	*****	0.0209
JUL 6.81	JUL 5.81	*****	*****	*****	*****	*****	*****	0.0955
JUL 18.81	JUL 17.81	1.06	0.34	0.225	0.040	0.260	0.328	0.0148
JUL 20.81	JUL 19.81	0.35	0.39	0.035	0.040	0.090	0.940	0.3715
JUL 29.81	JUL 28.81	0.08	0.27	0.010	0.030	U 0.200	0.052	0.0525
AUG 4.81	AUG 3.81	0.16	0.21	0.015	0.010	0.100	0.064	0.0355
AUG 5.81	AUG 4.81	0.12	0.23	0.015	0.030	0.150	0.540	0.0603
AUG 9.81	AUG 8.81	0.08	0.09	0.010	0.010	0.020	0.230	0.0832
AUG 11.81	AUG 10.81	0.22	0.25	0.035	0.020	0.160	0.344	0.0468
AUG 15.81	AUG 14.81	*****	*****	*****	*****	*****	*****	0.0724
AUG 16.81	AUG 15.81	0.12	0.11	0.015	0.010	0.570	0.360	0.1096
AUG 24.81	AUG 23.81	0.22	0.13	0.025	0.020	0.020	0.320	0.1000
AUG 27.81	AUG 26.81	0.59	0.14	0.100	0.030	<T 0.010	0.400	0.0851
AUG 29.81	AUG 28.81	0.08	0.13	0.015	0.020	<T 0.010	0.490	0.1995
SEP 2.81	SEP 1.81	0.08	0.13	<T 0.005	0.030	0.050	0.308	0.1047
SEP 3.81	SEP 2.81	0.05	0.10	<T 0.005	0.020	0.050	1.110	0.1318
SEP 4.81	SEP 3.81	0.03	0.07	<T 0.005	0.010	0.010	0.204	0.1047
SEP 5.81	SEP 4.81	0.02	0.04	<T 0.005	<T 0.010	<T 0.010	0.108	0.0692
SEP 6.81	SEP 5.81	*****	*****	*****	*****	*****	*****	*******
SEP 8.81	SEP 7.81	0.07	0.05	<T 0.005	<T 0.010	<T 0.010	0.338	0.0550
SEP 9.81	SEP 8.81	0.04	0.08	<T 0.005	<T 0.010	<T 0.010	0.102	0.0759
SEP 10.81	SEP 9.81	0.55	0.07	0.075	0.050	U 0.110	0.690	U 0.0007
SEP 11.81	SEP 10.81	1.20	0.10	0.185	0.060	0.100	1.190	0.0007
SEP 27.81	SEP 26.81	0.11	0.16	0.045	0.030	0.050	0.610	0.1479
SEP 28.81	SEP 27.81	*****	0.02	*****	*****	*****	*****	0.0047
OCT 2.81	OCT 1.81	0.02	0.01	<T 0.005	<T 0.010	<T 0.010	0.182	0.0407
OCT 5.81	OCT 4.81	*****	0.07	*****	*****	*****	*****	0.0479
OCT 6.81	OCT 5.81	0.08	0.09	0.005	<T 0.010	<T 0.010	0.150	0.0741
OCT 7.81	OCT 6.81	0.02	0.04	<T 0.005	<T 0.010	<T 0.010	0.244	0.0537
OCT 8.81	OCT 7.81	*****	*****	*****	*****	*****	*****	0.0339
OCT 16.81	OCT 15.81	*****	*****	*****	*****	*****	*****	0.0708
OCT 18.81	OCT 17.81	0.06	0.10	0.010	<T 0.010	0.060	0.122	0.0417
OCT 19.81	OCT 18.81	*****	0.02	*****	*****	*****	0.196	U 0.0091
OCT 22.81	OCT 21.81	0.10	0.07	<T 0.005	0.030	0.050	0.056	0.0166

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
OCT 23.81	OCT 22.81	845	845	1630	315	2	****	*	28358	2	1	****		
OCT 26.81	OCT 25.81	755	745	100	800	1	4.6	1	28359	2	1	27	C	N
OCT 28.81	OCT 27.81	745	750	2215	430	1	12.1	1	28360	2	1	57		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06 PAGE : 8

REMOVAL DATE	EXPOSURE DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
OCT 23.81	OCT 22.81		741.	5.2	4.92	4.96	0.0362	0.25	0.09
OCT 26.81	OCT 25.81	U	71.	*****	*****	4.86	******	2.55	0.63
OCT 28.81	OCT 27.81		445.	12.4	4.49	4.54	0.0542	1.10	0.10

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM #06 PAGE : 9

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
OCT 23,81	OCT 22,81	0.03	<T 0.01	<T 0.005	<T 0.010	<T 0.010	0.026	0.0110
OCT 26,81	OCT 25,81	*****	0.30	*****	*****	*****	*****	0.0871
OCT 28,81	OCT 27,81	0.05	<T 0.01	<T 0.005	0.020	<T 0.010	0.004	0.0288

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/SES #06 PAGE 1 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
FEB 2.81	FEB 1.81	745	758	****	****	2	****	*	462	2	1	****		
FEB 3.81	FEB 2.81	745	800	****	****	2	****	*	463	2	1	****		
FEB 6.81	FEB 5.81	740	755	****	****	2	****	*	2538	2	1	****	E	
FEB 7.81	FEB 6.81	830	845	****	****	2	****	*	464	2	1	****		M
FEB 8.81	FEB 7.81	930	945	****	****	2	****	*	2497	2	1	****	E	
FEB 11.81	FEB 10.81	740	755	****	****	3	****	*	465	2	1	****		
FEB 12.81	FEB 11.81	745	800	****	****	2	****	*	466	2	1	****		
FEB 17.81	FEB 16.81	740	755	****	****	1	16.0	1	467	2	1	17		N
FEB 20.81	FEB 19.81	745	800	****	****	1	6.3	2	1567	2	1	91		
FEB 21.81	FEB 20.81	845	900	****	****	1	7.0	2	1568	2	1	115		
FEB 23.81	FEB 22.81	740	755	****	****	1	0.8	2	1569	2	1	170		N
FEB 24.81	FEB 23.81	740	755	****	****	1	3.2	2	1570	2	1	313		N
FEB 25.81	FEB 24.81	740	755	****	****	2	1.4	2	1571	2	1	93		
FEB 28.81	FEB 27.81	900	915	****	****	2	0.7	2	1572	2	1	157		N
MAR 1.81	FEB 28.81	900	915	****	****	2	0.7	2	1573	2	1	55		
MAR 2.81	MAR 1.81	730	745	****	****	2	0.7	2	1574	2	1	73		
MAR 5.81	MAR 4.81	730	745	****	****	2	3.9	2	1575	2	1	86		
MAR 7.81	MAR 6.81	900	915	****	****	2	1.0	2	1576	2	1	82		
MAR 14.81	MAR 13.81	900	915	****	****	2	2.3	2	1577	2	1	79		
MAR 17.81	MAR 16.81	740	735	****	****	2	5.6	2	1578	2	1	97		CM
MAR 20.81	MAR 19.81	745	800	****	****	2	0.8	2	1579	2	1	93		
MAR 30.81	MAR 29.81	740	755	****	****	1	7.2	2	1580	2	1	117	CD	
MAR 31.81	MAR 30.81	740	755	****	****	1	13.0	2	1581	2	1	114		
APR 2.81	APR 1.81	740	755	****	****	1	1.8	2	1582	2	1	213	CD	N
APR 4.81	APR 3.81	930	945	****	****	1	5.7	2	1583	2	1	148	C	N
APR 9.81	APR 8.81	840	855	****	****	1	****	*	2077	2	1	****	CDQ	
APR 11.81	APR 10.81	900	915	****	****	1	11.2	2	2078	2	1	112		
APR 14.81	APR 13.81	740	755	****	****	1	11.1	2	2079	2	1	117		
APR 17.81	APR 16.81	830	845	300	700	1	4.9	2	2080	2	1	132	C	N
APR 18.81	APR 17.81	900	915	1000	2400	1	9.5	2	2081	2	1	135	C	N
APR 20.81	APR 19.81	900	915	2200	300	3	0.8	2	2082	2	1	189	C	N
APR 24.81	APR 23.81	740	755	2200	700	1	5.4	1	2083	2	1	113	AC	
APR 25.81	APR 24.81	900	915	800	1100	3	6.0	1	2084	2	1	97		
APR 29.81	APR 28.81	1100	1115	2100	500	1	5.0	1	2085	2	1	96	A	
NOV 6.81	NOV 5.81	725	745	200	745	1	2.2	1	28361	2	1	31	CG	N
NOV 7.81	NOV 6.81	755	845	30	2300	2	****	*	28362	2	1	****	CG	M
NOV 17.81	NOV 16.81	750	745	1230	730	1	24.3	1	28363	2	1	117		
NOV 18.81	NOV 17.81	748	745	845	2130	1	3.1	1	28364	2	1	54	C	
NOV 20.81	NOV 19.81	745	750	300	730	2	7.1	2	28365	2	1	91		
NOV 21.81	NOV 20.81	750	930	930	2030	2	12.0	2	28366	2	1	84		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/SES #06

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
FEB 2.81	FEB 1.81	1391.	15.0	4.36	4.58	0.0510	0.80	0.31
FEB 3.81	FEB 2.81	96.	*****	*****	4.21	******	2.10	1.10
FEB 6.81	FEB 5.81	41.	*****	*****	*****	******	*****	*****
FEB 7.81	FEB 6.81	328.	38.3	*****	4.16	0.1142	1.00	1.06
FEB 8.81	FEB 7.81	25.	*****	*****	*****	******	*****	*****
FEB 11.81	FEB 10.81	2811.	13.7	4.33	4.54	0.0590	0.90	0.26
FEB 12.81	FEB 11.81	436.	22.8	4.10	4.29	0.0820	1.05	0.54
FEB 17.81	FEB 16.81	U 453.	58.0	4.06	4.07	0.1286	6.20	1.20
FEB 20.81	FEB 19.81	946.	61.0	3.78	3.92	0.1576	4.40	1.21
FEB 21.81	FEB 20.81	1330.	13.2	4.35	4.59	0.0538	0.80	0.26
FEB 23.81	FEB 22.81	224.	*****	*****	4.26	0.0840	3.80	0.51
FEB 24.81	FEB 23.81	1644.	17.6	4.20	4.45	0.0630	1.30	0.30
FEB 25.81	FEB 24.81	214.	*****	*****	4.46	0.0734	3.70	1.56
FEB 28.81	FEB 27.81	181.	*****	*****	4.06	******	10.00	1.42
MAR 1.81	FEB 28.81	64.	*****	*****	3.51	******	13.50	3.40
MAR 2.81	MAR 1.81	84.	43.4	4.14	4.52	0.1092	5.95	0.73
MAR 5.81	MAR 4.81	555.	*****	*****	4.14	******	1.95	1.38
MAR 7.81	MAR 6.81	135.	25.5	6.23	U 5.80	0.0384	U 1.00	0.16
MAR 14.81	MAR 13.81	301.	9.9	*****	U 6.70	0.0322	4.35	0.67
MAR 17.81	MAR 16.81	895.	*****	4.24	6.58	******	0.90	0.25
MAR 20.81	MAR 19.81	122.	45.5	4.25	U 6.28	0.0954	1.15	0.17
MAR 30.81	MAR 29.81	1392.	27.5	4.24	4.31	0.0832	7.35	0.85
MAR 31.81	MAR 30.81	2434.	38.5	4.28	4.31	0.0888	3.15	0.35
APR 2.81	APR 1.81	631.	35.5	U 7.09	4.37	******	5.70	0.79
APR 4.81	APR 3.81	1383.	77.0	4.09	4.58	0.0404	6.45	0.76
APR 9.81	APR 8.81	327.	34.0	4.25	U 7.36	0.0992	U 10.15	1.97
APR 11.81	APR 10.81	2060.	22.0	5.24	4.27	0.0740	4.15	0.83
APR 14.81	APR 13.81	2136.	15.4	4.04	4.39	0.0364	2.25	0.35
APR 17.81	APR 16.81	1066.	33.0	*****	5.79	0.0914	2.95	0.55
APR 18.81	APR 17.81	2114.	26.0	3.89	4.38	0.0764	4.07	0.92
APR 20.81	APR 19.81	249.	56.0	4.41	4.52	0.1436	4.35	0.41
APR 24.81	APR 23.81	1001.	14.7	3.97	3.98	0.0594	6.55	1.10
APR 25.81	APR 24.81	959.	47.8	*****	4.58	0.1210	1.05	0.26
APR 29.81	APR 28.81	788.	*****	*****	4.16	******	5.90	0.96
NOV 6.81	NOV 5.81	U 114.	*****	4.84	U 5.03	******	8.70	1.76
NOV 7.81	NOV 6.81	195.	6.3	*****	4.72	0.0484	0.70	0.09
NOV 17.81	NOV 16.81	4680.	23.0	4.41	4.94	0.0860	0.55	0.05
NOV 18.81	NOV 17.81	276.	17.3	4.16	4.34	0.1062	2.40	0.20
NOV 20.81	NOV 19.81	1065.	31.1		4.39	0.1062	1.35	0.22
NOV 21.81	NOV 20.81	1660.			4.20		1.55	0.51

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/SES #06

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
FEB 2.81	FEB 1.81	0.14	0.20	0.005	< 0.010	0.060	0.138	0.0263
FEB 3.81	FEB 2.81	0.30	0.37	0.025	0.010	0.170	*****	0.0617
FEB 6.81	FEB 5.81	*****	*****	*****	*****	*****	*****	******
FEB 7.81	FEB 6.81	0.17	0.44	0.035	0.020	0.090	0.128	0.0692
FEB 8.81	FEB 7.81	*****	*****	*****	*****	*****	*****	******
FEB 11.81	FEB 10.81	0.07	0.08	0.005	< 0.010	0.050	0.068	0.0288
FEB 12.81	FEB 11.81	0.11	0.05	0.010	< 0.010	0.030	0.038	0.0513
FEB 17.81	FEB 16.81	U 1.20	1.69	0.170	0.090	U 1.400	0.640	0.0851
FEB 20.81	FEB 19.81	0.27	0.23	0.020	0.020	0.060	0.590	0.1202
FEB 21.81	FEB 20.81	U 0.10	0.04	0.010	<T 0.010	0.010	0.018	0.0257
FEB 23.81	FEB 22.81	0.40	0.94	0.125	0.060	0.740	0.330	0.0550
FEB 24.81	FEB 23.81	0.04	0.13	0.005	0.010	0.060	0.122	0.0355
FEB 25.81	FEB 24.81	1.10	0.31	0.175	0.040	0.090	1.250	0.0347
FEB 28.81	FEB 27.81	2.20	0.45	0.160	0.110	0.350	1.450	0.0871
MAR 1.81	FEB 28.81	*****	0.45	*****	*****	*****	*****	0.3090
MAR 2.81	MAR 1.81	*****	0.32	*****	*****	*****	U 1.210	0.0302
MAR 5.81	MAR 4.81	0.64	0.58	0.100	0.030	0.110	0.480	0.0724
MAR 7.81	MAR 6.81	0.56	0.21	0.035	0.030	0.130	U 0.100	U 0.0016
MAR 14.81	MAR 13.81	U 2.60	0.40	0.310	0.090	0.250	0.540	U 0.0002
MAR 17.81	MAR 16.81	0.81	0.12	U 0.135	0.010	0.040	0.380	0.0003
MAR 20.81	MAR 19.81	U 1.11	0.38	0.055	0.010	0.250	0.024	U 0.0005
MAR 30.81	MAR 29.81	1.54	0.48	0.215	0.080	0.370	0.910	0.0490
MAR 31.81	MAR 30.81	0.11	0.03	0.015	0.020	0.030	0.450	0.0490
APR 2.81	APR 1.81	1.28	0.27	0.145	0.070	0.120	0.790	0.0427
APR 4.81	APR 3.81	1.84	0.44	0.255	0.130	0.270	0.670	0.0263
APR 9.81	APR 8.81	U 10.00	1.03	U 1.150	0.520	0.610	1.450	U 0.0000
APR 11.81	APR 10.81	0.85	0.23	0.125	0.040	0.150	0.600	0.0537
APR 14.81	APR 13.81	0.15	0.05	0.025	0.030	0.090	0.242	0.0407
APR 17.81	APR 16.81	1.42	0.13	0.165	0.040	0.060	0.342	0.0016
APR 18.81	APR 17.81	0.56	0.05	0.075	0.090	0.140	1.140	0.0417
APR 20.81	APR 19.81	0.70	0.05	0.095	0.200	0.070	0.680	0.0302
APR 24.81	APR 23.81	U 1.25	0.14	U 0.060	0.070	0.050	0.670	0.1047
APR 25.81	APR 24.81	0.05	0.03	<T 0.005	<T 0.010	0.020	0.194	0.0263
APR 29.81	APR 28.81	U 1.27	0.20	0.065	0.050	0.060	0.810	0.0692
NOV 6.81	NOV 5.81	U 4.20	0.26	0.425	0.070	0.190	*****	U 0.0093
NOV 7.81	NOV 6.81	0.12	<T 0.01	0.010	<T 0.010	0.020	0.180	0.0191
NOV 17.81	NOV 16.81	0.09	<T 0.01	0.005	<T 0.010	0.020	0.070	0.0115
NOV 18.81	NOV 17.81	0.05	<T 0.01	<T 0.005	0.010	0.070	0.370	0.0457
NOV 20.81	NOV 19.81	0.08	<T 0.01	<T 0.005	<T 0.010	0.010	0.162	0.0407
NOV 21.81	NOV 20.81	0.03	<T 0.01	<T 0.005	<T 0.010	<T 0.010	0.186	0.0631

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/SES #06

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
NOV 23.81	NOV 22.81	750	745	1300	2200	2	1.3	2	28367	2	1	68	C	
NOV 27.81	NOV 26.81	750	745	1830	715	1	15.0	2	28368	2	1	61		
NOV 28.81	NOV 27.81	750	900	****	2400	2	****	*	28369	2	1	****	C	
DEC 2.81	DEC 1.81	750	745	30	1800	1	****	*	28370	2	1	****		
DEC 8.81	DEC 7.81	845	930	30	830	2	****	*	28371	2	1	****		
DEC 10.81	DEC 9.81	745	755	30	730	2	****	*	28372	2	1	****	C	
DEC 15.81	DEC 14.81	755	830	****	1930	2	****	*	28373	2	1	****		
DEC 22.81	DEC 21.81	745	750	1300	400	2	7.0	2	28374	2	1	72		
DEC 23.81	DEC 22.81	750	755	400	755	2	8.0	2	28375	2	1	32	G	N
DEC 28.81	DEC 27.81	930	1020	1300	2330	2	5.0	2	28376	2	1	70	G	C
DEC 29.81	DEC 28.81	1020	745	1300	2300	2	2.0	2	28377	2	1	103		
JAN 1.82	DEC 31.81	755	930	2000	2345	2	6.2	2	28378	2	1	84		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/SES #06 PAGE : 5

REMOVAL DATE	EXPOSURE DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
NOV 23.81	NOV 22.81		145.	*****	*****		4.24	******	2.10	0.14
NOV 27.81	NOV 26.81		1500.	34.7	4.15		4.17	0.1272	3.10	0.52
NOV 28.81	NOV 27.81		95.	*****	*****	U	6.54	******	6.15	0.89
DEC 2.81	DEC 1.81		210.	*****	*****		3.97	******	5.50	1.40
DEC 8.81	DEC 7.81		405.	63.5	3.99		4.05	0.1798	4.65	2.16
DEC 10.81	DEC 9.81		290.	6.5	*****		5.01	0.0524	0.30	0.05
DEC 15.81	DEC 14.81		275.	89.5	*****		3.73	0.2520	6.60	1.86
DEC 22.81	DEC 21.81		835.	16.7	4.50		4.72	0.0840	1.15	0.44
DEC 23.81	DEC 22.81	U	430.	10.3	4.52		4.64	0.0586	0.25	0.18
DEC 28.81	DEC 27.81		575.	27.2	4.12		4.16	0.1096	1.50	0.80
DEC 29.81	DEC 28.81		340.	23.7	*****		4.20	0.0964	0.45	0.59
JAN 1.82	DEC 31.81		860.	34.5	4.13		4.11	0.1192	2.25	0.66

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/SES #06

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
NOV 23.81	NOV 22.81	0.12	0.03	0.015	<T 0.010	0.090	0.052	0.0575
NOV 27.81	NOV 26.81	0.08	0.04	0.020	0.010	0.070	0.370	0.0676
NOV 28.81	NOV 27.81	*****	0.10	*****	*****	*****	0.670	U 0.0003
DEC 2.81	DEC 1.81	1.56	0.35	0.100	0.050	0.080	*****	0.1072
DEC 8.81	DEC 7.81	1.68	0.60	0.125	0.080	0.160	1.170	0.0891
DEC 10.81	DEC 9.81	0.20	0.11	0.020	0.020	0.060	*****	0.0098
DEC 15.81	DEC 14.81	U 1.12	0.84	U 0.140	0.060	0.400	*****	0.1862
DEC 22.81	DEC 21.81	0.72	U 0.52	0.070	0.010	U 0.240	0.054	0.0191
DEC 23.81	DEC 22.81	0.02	0.14	<T 0.005	0.010	0.010	0.018	0.0229
DEC 28.81	DEC 27.81	0.36	0.18	0.025	0.030	0.070	0.224	0.0692
DEC 29.81	DEC 28.81	0.06	0.09	<T 0.005	0.010	0.040	0.044	0.0631
JAN 1.82	DEC 31.81	0.21	0.09	0.020	0.020	0.100	0.216	0.0776

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM #07

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
MAY 6.81	MAY 5.81	830	830	1700	2000	1	5.0	1	28001	2	1	89		
MAY 10.81	MAY 9.81	900	1000	1400	1530	1	0.8	1	28002	2	1	58	C	
MAY 11.81	MAY 10.81	900	830	1300	2400	1	23.8	1	28003	2	1	89		
MAY 12.81	MAY 11.81	830	830	1100	1900	1	8.0	1	28004	2	1	71	C	M
MAY 13.81	MAY 12.81	830	830	1800	1900	1	3.0	1	28005	2	1	23		M
MAY 15.81	MAY 14.81	830	900	200	300	1	2.6	1	28006	2	1	60	C	
MAY 25.81	MAY 24.81	830	830	100	830	1	2.2	1	28007	2	1	53	C	
MAY 26.81	MAY 25.81	830	830	600	830	1	3.2	1	28008	2	1	73	D	
MAY 28.81	MAY 27.81	830	830	100	600	1	6.6	1	28009	2	1	73	C	
JUN 4.81	JUN 3.81	900	900	100	900	1	11.8	1	28010	2	1	94		
JUN 5.81	JUN 4.81	900	845	900	1900	1	3.8	1	28011	2	1	79		
JUN 6.81	JUN 5.81	845	900	200	600	1	11.0	1	28012	2	1	99	D	
JUN 9.81	JUN 8.81	830	830	****	****	1	10.0	1	28013	2	1	96		
JUN 15.81	JUN 14.81	830	900	1900	2300	1	2.8	1	28014	2	1	72	D	
JUN 16.81	JUN 15.81	830	830	****	****	1	18.8	1	28015	2	1	106	D	
JUN 17.81	JUN 16.81	900	900	100	300	1	1.6	1	28016	2	1	40		M
JUN 22.81	JUN 21.81	830	830	****	830	1	9.0	1	28017	2	1	79	C	
JUN 23.81	JUN 22.81	830	830	500	2100	1	29.0	1	28018	2	1	85		
JUN 25.81	JUN 24.81	830	900	1200	1530	1	4.7	1	28019	2	1	89	C	
JUN 30.81	JUN 29.81	830	830	1900	830	1	5.2	1	28020	2	1	92		
JUL 1.81	JUN 30.81	830	900	****	****	1	2.0	1	28021	2	1	61	A	
JUL 5.81	JUL 4.81	830	930	****	****	1	5.4	1	28022	2	1	95	A	
JUL 14.81	JUL 13.81	830	830	1600	1800	1	6.2	1	28023	2	1	99		
JUL 29.81	JUL 28.81	830	830	1200	1800	1	8.8	1	28024	2	1	85		
AUG 5.81	AUG 4.81	830	830	2000	2400	1	35.0	1	28025	2	1	97		
AUG 8.81	AUG 7.81	830	900	2000	800	1	7.2	1	28026	2	1	97	C	
AUG 9.81	AUG 8.81	830	900	1000	1800	1	15.2	1	28027	2	1	47		M
AUG 11.81	AUG 10.81	830	830	1500	1700	1	4.6	1	28028	2	1	76	CJ	
AUG 15.81	AUG 14.81	830	900	400	900	1	19.4	1	28029	2	1	97		
AUG 24.81	AUG 23.81	930	930	****	100	1	3.9	1	28030	2	1	77		
AUG 29.81	AUG 28.81	900	900	2200	900	1	15.1	1	28031	2	1	89		
AUG 30.81	AUG 29.81	900	900	2000	****	1	13.1	1	28032	2	1	98		
AUG 31.81	AUG 30.81	900	900	****	****	1	15.8	1	28033	2	1	96		
SEP 2.81	SEP 1.81	900	900	900	900	1	35.0	1	28034	2	1	94		
SEP 3.81	SEP 2.81	900	900	****	****	1	3.0	1	28035	2	1	56		
SEP 4.81	SEP 3.81	900	900	****	****	1	18.0	1	28036	2	1	88		
SEP 5.81	SEP 4.81	900	900	****	****	1	5.0	1	28037	2	1	96		
SEP 8.81	SEP 7.81	830	830	1100	1400	1	7.8	1	28038	2	1	87	J	
SEP 9.81	SEP 8.81	830	830	1300	1600	1	3.6	1	28039	2	1	60	C	
SEP 10.81	SEP 9.81	830	830	400	600	1	25.0	1	28040	2	1	164		MM

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM #07

REMOVAL DATE	EXPOSURE DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
MAY 6.81	MAY 5.81		287.	31.6	*****		4.32	0.0824	3.75	0.72
MAY 10.81	MAY 9.81		30.	*****	*****		3.77	******	9.05	1.61
MAY 11.81	MAY 10.81		1370.	31.9	4.14		4.20	0.0936	3.25	0.33
MAY 12.81	MAY 11.81		368.	15.6	4.45		4.56	0.0632	2.30	0.21
MAY 13.81	MAY 12.81	U	45.	*****	*****		4.65	******	3.35	0.16
MAY 15.81	MAY 14.81		100.	*****	*****		3.89	******	7.10	0.68
MAY 25.81	MAY 24.81		76.	*****	*****		3.52	******	13.20	2.14
MAY 26.81	MAY 25.81		151.	28.2	*****	U	4.90	******	3.20	0.55
MAY 28.81	MAY 27.81		310.	51.5	3.86		4.31	0.0798	3.50	0.58
JUN 4.81	JUN 3.81		716.	*****	*****		3.93	0.1474	5.45	0.62
JUN 5.81	JUN 4.81		193.	21.4	4.65		4.18	******	3.65	0.39
JUN 6.81	JUN 5.81		703.	49.2	4.02		5.00	0.0486	3.60	0.74
JUN 9.81	JUN 8.81		616.	*****	*****		4.08	0.1318	5.95	0.75
JUN 15.81	JUN 14.81		130.	14.6	4.44		4.30	******	3.55	0.66
JUN 16.81	JUN 15.81		1289.	*****	*****		4.63	0.0570	1.90	0.28
JUN 17.81	JUN 16.81	U	42.	25.9	4.19		6.57	******	1.90	0.38
JUN 22.81	JUN 21.81		457.	8.2	4.74		4.31	0.0774	1.90	0.49
JUN 23.81	JUN 22.81		1585.	15.5	*****		4.87	0.0418	0.95	0.04
JUN 25.81	JUN 24.81		270.	15.3	*****		5.28	0.0442	2.50	0.32
JUN 30.81	JUN 29.81		309.	*****	*****		4.52	0.0596	1.35	0.24
JUL 1.81	JUN 30.81		79.	58.0	4.34	U	6.77	******	0.70	0.16
JUL 5.81	JUL 4.81		332.	10.9	4.10		4.16	0.1292	6.75	0.73
JUL 14.81	JUL 13.81		397.	26.6	4.34		4.76	0.0462	1.40	0.17
JUL 29.81	JUL 28.81		484.	15.9	3.74		4.21	0.0868	2.20	0.32
AUG 5.81	AUG 4.81		2190.	61.0	4.09		4.58	0.0544	1.65	0.19
AUG 8.81	AUG 7.81		450.	27.4	*****		3.91	0.1652	5.85	0.70
AUG 9.81	AUG 8.81	U	467.	*****	4.20		4.24	0.0864	2.30	0.30
AUG 11.81	AUG 10.81		227.	19.8	*****		4.11	0.1204	5.45	0.70
AUG 15.81	AUG 14.81		1212.	*****	3.57		4.45	0.0646	1.65	0.16
AUG 24.81	AUG 23.81		194.	82.5	3.50		4.04	******	4.30	0.49
AUG 29.81	AUG 28.81		865.	114.0	3.68		3.76	0.2090	8.55	0.63
AUG 30.81	AUG 29.81		825.	70.0	3.73		3.61	0.2886	11.70	0.81
AUG 31.81	AUG 30.81		977.	61.0	*****		3.87	0.1742	7.65	0.63
SEP 2.81	SEP 1.81		2130.	*****	4.16		3.87	0.1706	5.65	0.62
SEP 3.81	SEP 2.81		108.	16.6	*****		3.80	******	8.20	0.87
SEP 4.81	SEP 3.81		1018.	39.5	3.76		4.48	0.0590	1.40	0.15
SEP 5.81	SEP 4.81		310.	53.0	*****		4.09	0.1124	3.25	0.48
SEP 8.81	SEP 7.81		436.	*****	4.88		3.93	0.1470	5.65	0.55
SEP 9.81	SEP 8.81		139.	13.3			4.21	******	3.50	0.38
SEP 10.81	SEP 9.81		2638.			U	5.42	0.0320	2.10	0.39

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM #07 PAGE : 3

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
MAY 6,81	MAY 5,81	0.96	0.14	0.120	0.030	0.030	0.332	0.0479
MAY 10,81	MAY 9,81	*****	0.53	*****	*****	*****	*****	0.1698
MAY 11,81	MAY 10,81	0.08	0.20	0.015	0.020	0.100	0.318	0.0631
MAY 12,81	MAY 11,81	0.24	0.74	U 0.025	U 0.110	0.380	0.070	0.0275
MAY 13,81	MAY 12,81	*****	0.64	*****	*****	*****	*****	0.0141
MAY 15,81	MAY 14,81	*****	0.29	*****	*****	*****	0.510	0.1288
MAY 25,81	MAY 24,81	*****	0.92	*****	*****	*****	*****	0.3020
MAY 26,81	MAY 25,81	U 0.82	0.36	0.075	U 0.320	0.200	0.700	U 0.0126
MAY 28,81	MAY 27,81	0.26	0.22	0.040	0.110	0.130	0.630	0.0490
JUN 4,81	JUN 3,81	0.13	0.14	0.020	0.040	0.030	0.450	0.1175
JUN 5,81	JUN 4,81	0.13	0.19	0.020	0.080	0.070	0.358	0.0661
JUN 6,81	JUN 5,81	1.10	0.19	0.200	0.090	0.050	0.830	0.0100
JUN 9,81	JUN 8,81	0.51	0.30	0.090	0.060	0.170	0.820	0.0832
JUN 15,81	JUN 14,81	0.38	0.28	0.060	0.110	0.190	0.610	0.0501
JUN 16,81	JUN 15,81	0.14	0.26	0.030	0.040	0.210	0.272	0.0234
JUN 17,81	JUN 16,81	*****	> 1.50	*****	*****	*****	*****	0.0003
JUN 22,81	JUN 21,81	0.20	0.08	0.030	0.040	0.020	0.250	0.0490
JUN 23,81	JUN 22,81	0.06	0.01	0.020	U 0.230	0.020	0.086	0.0135
JUN 25,81	JUN 24,81	0.38	0.22	0.075	0.050	0.100	0.700	0.0052
JUN 30,81	JUN 29,81	0.18	0.08	0.035	U 0.460	0.030	0.084	0.0302
JUL 1,81	JUN 30,81	*****	0.22	*****	*****	*****	*****	U 0.0002
JUL 5,81	JUL 4,81	0.27	0.36	0.090	<T 0.010	0.080	U 1.340	0.0692
JUL 14,81	JUL 13,81	0.12	0.05	0.025	0.030	0.010	0.266	0.0174
JUL 29,81	JUL 28,81	0.14	0.11	0.020	0.050	0.040	0.068	0.0617
AUG 5,81	AUG 4,81	0.05	0.05	0.010	0.020	0.010	0.260	0.0263
AUG 8,81	AUG 7,81	0.33	0.18	0.020	0.040	0.030	0.384	0.1230
AUG 9,81	AUG 8,81	0.08	0.13	0.010	0.030	0.060	0.144	0.0575
AUG 11,81	AUG 10,81	U 0.58	0.20	U 0.125	U 0.280	0.050	0.660	0.0776
AUG 15,81	AUG 14,81	0.02	0.03	<T 0.005	0.020	0.010	0.130	0.0355
AUG 24,81	AUG 23,81	0.24	0.13	0.040	0.040	0.030	0.330	0.0912
AUG 29,81	AUG 28,81	0.10	0.15	0.010	0.030	0.050	0.500	0.1738
AUG 30,81	AUG 29,81	0.16	0.22	0.015	0.060	0.040	0.740	0.2455
AUG 31,81	AUG 30,81	0.07	0.13	0.010	0.030	0.040	0.800	0.1349
SEP 2,81	SEP 1,81	0.09	0.15	0.010	0.040	0.030	0.330	0.1349
SEP 3,81	SEP 2,81	*****	0.21	*****	*****	*****	0.880	0.1585
SEP 4,81	SEP 3,81	0.02	0.03	<T 0.005	0.010	0.010	0.056	0.0331
SEP 5,81	SEP 4,81	0.10	0.11	0.010	0.060	0.040	0.108	0.0813
SEP 8,81	SEP 7,81	0.18	0.13	0.040	U 0.100	0.050	0.440	0.1175
SEP 9,81	SEP 8,81	0.08	0.24	0.005	0.030	0.020	U 0.590	0.0617
SEP 10,81	SEP 9,81	0.46	0.08	0.085	0.050	0.030	0.670	U 0.0038

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM #07 PAGE : 4

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
SEP 12,81	SEP 11,81	830	830	300	700	1	10.0	1	28041	2	1	102	C	
SEP 20,81	SEP 19,81	830	900	1630	1900	1	4.0	1	28042	2	1	83	J	
SEP 27,81	SEP 26,81	830	900	2200	830	1	31.0	1	28043	2	1	100	J	
SEP 28,81	SEP 27,81	830	830	530	730	1	4.0	1	28044	2	1	75	CDJ	M
OCT 2,81	OCT 1,81	830	830	1200	1700	1	5.8	1	28045	2	1	123	CJ	M
OCT 3,81	OCT 2,81	830	830	1100	1800	1	1.6	1	28046	2	1	61	C	
OCT 5,81	OCT 4,81	830	830	500	700	1	5.2	1	28047	2	1	94	CJ	
OCT 6,81	OCT 5,81	830	830	400	830	1	6.8	1	28048	2	1	92	CAJ	
OCT 7,81	OCT 6,81	830	830	1400	830	1	10.2	1	28049	2	1	95	J	
OCT 8,81	OCT 7,81	830	830	1200	1400	1	3.0	1	28050	2	1	64	C	
OCT 16,81	OCT 15,81	830	830	1800	1900	1	4.8	1	28051	2	1	59		
OCT 18,81	OCT 17,81	830	900	800	900	1	****	*	28052	2	1	****	GE	X
OCT 19,81	OCT 18,81	830	900	1300	****	1	14.2	1	28053	2	1	69	CJG	
OCT 20,81	OCT 19,81	830	830	500	700	2	5.0	1	28054	2	1	15	J	M
OCT 23,81	OCT 22,81	830	830	1900	100	2	7.5	3	28055	2	1	55	C	
OCT 24,81	OCT 23,81	830	830	1430	1630	2	17.0	1	28056	2	1	15	C	M

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM #07

REMOVAL DATE	EXPOSURE DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L		SULPHATE MG/L		NITRATE AS N MG/L	
SEP 12.81	SEP 11.81		656.	20.1	4.58		4.73	0.0584	U	3.10	U	0.52	
SEP 20.81	SEP 19.81		215.	*****	*****		4.82	0.0460		3.15		0.57	
SEP 27.81	SEP 26.81		2004.	34.0	4.08		4.20	0.0958		3.30		0.36	
SEP 28.81	SEP 27.81		194.	*****	*****		5.19	******		2.80		0.23	
OCT 2.81	OCT 1.81		460.	42.4	3.99		4.00	0.1292		3.90		0.43	
OCT 3.81	OCT 2.81		63.	*****	*****		5.28	******		1.05		0.18	
OCT 5.81	OCT 4.81		315.	12.5	*****		4.63	0.0512		1.05		0.15	
OCT 6.81	OCT 5.81		405.	32.0	4.16		4.24	0.0908		2.70		0.66	
OCT 7.81	OCT 6.81		626.	28.3	4.16		4.18	0.0940		2.35		0.30	
OCT 8.81	OCT 7.81		124.	*****	*****		5.14	******		0.35	<T	0.01	
OCT 16.81	OCT 15.81		182.	*****	*****		4.03	******		3.85		0.63	
OCT 18.81	OCT 17.81		*****	*****	*****		*****	******		*****		*****	
OCT 19.81	OCT 18.81	U	635.	14.2	*****		4.65	0.0504		1.65		0.18	
OCT 20.81	OCT 19.81	U	50.	*****	*****		4.40	******		1.50		0.46	
OCT 23.81	OCT 22.81		268.	9.0	*****	U	6.57	0.0276	U	0.55	U	0.13	
OCT 24.81	OCT 23.81	U	168.	*****	*****		4.61	******		0.85		0.29	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM #07 PAGE : 6

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
SEP 12,81	SEP 11,81	U 0.63	0.14	U 0.110	0.060	0.040	U 0.630	0.0186
SEP 20,81	SEP 19,81	0.63	0.14	0.150	0.080	0.080	0.680	0.0151
SEP 27,81	SEP 26,81	0.15	0.06	0.020	0.020	0.010	0.600	0.0631
SEP 28,81	SEP 27,81	U 0.44	0.04	U 0.090	U 0.140	0.030	0.196	0.0065
OCT 2,81	OCT 1,81	U 0.12	0.12	U 0.015	U 0.040	0.080	U 0.032	0.1000
OCT 3,81	OCT 2,81	*****	0.34	*****	*****	*****	*****	0.0052
OCT 5,81	OCT 4,81	0.06	0.08	0.010	0.060	0.030	0.228	0.0234
OCT 6,81	OCT 5,81	0.48	0.18	U 0.080	0.050	0.080	0.160	0.0575
OCT 7,81	OCT 6,81	0.04	0.04	<T 0.005	0.030	0.020	0.006	0.0661
OCT 8,81	OCT 7,81	*****	0.04	*****	*****	*****	0.026	0.0072
OCT 16,81	OCT 15,81	0.21	0.17	0.040	U 0.090	U 0.070	0.226	0.0933
OCT 18,81	OCT 17,81	*****	*****	*****	*****	*****	*****	******
OCT 19,81	OCT 18,81	0.08	0.04	0.020	0.030	0.030	0.346	0.0224
OCT 20,81	OCT 19,81	*****	0.17	*****	*****	*****	*****	0.0398
OCT 23,81	OCT 22,81	U 0.32	U 0.76	U 0.075	U 0.770	U 0.380	U 0.264	U 0.0003
OCT 24,81	OCT 23,81	0.20	0.08	0.010	0.070	0.050	0.120	0.0245

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/SES #07 PAGE : 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 27.81	JAN 26.81	1500	800	****	****	3	****	*	468	2	1	****		
FEB 2.81	FEB 1.81	900	800	****	1000	2	****	*	469	2	1	****	B	
FEB 3.81	FEB 2.81	800	800	****	1215	2	****	*	470	2	1	****	D	
FEB 4.81	FEB 3.81	800	800	****	****	2	****	*	471	2	1	****	D	
FEB 6.81	FEB 5.81	800	800	****	****	2	****	*	2539	2	1	****	E	
FEB 7.81	FEB 6.81	803	802	****	****	2	****	*	472	2	1	****	C	
FEB 8.81	FEB 7.81	800	805	****	****	2	****	*	473	2	1	****	C	
FEB 9.81	FEB 8.81	800	800	****	****	2	****	*	2498	2	1	****	EC	
FEB 11.81	FEB 10.81	800	800	1100	800	3	****	*	474	2	1	****		
FEB 12.81	FEB 11.81	800	800	****	300	3	****	*	475	2	1	****	C	
FEB 13.81	FEB 12.81	800	800	****	****	2	****	*	2499	2	1	****	CE	
FEB 17.81	FEB 16.81	800	800	****	****	1	****	*	476	2	1	****	C	L
FEB 19.81	FEB 18.81	800	803	****	****	1	0.6	1	1539	2	1	107		
FEB 20.81	FEB 19.81	800	804	****	****	1	****	*	1540	2	1	****		
FEB 21.81	FEB 20.81	800	800	****	****	1	2.6	1	1541	2	1	93		
FEB 22.81	FEB 21.81	800	800	****	****	1	****	*	1542	2	1	****		
FEB 23.81	FEB 22.81	800	805	****	****	1	2.0	1	1543	2	1	97		
FEB 24.81	FEB 23.81	800	805	****	****	1	5.2	1	1544	2	1	109		
FEB 25.81	FEB 24.81	800	805	****	****	2	0.7	2	1545	2	1	78	C	
FEB 28.81	FEB 27.81	800	806	****	****	2	6.5	2	1546	2	1	78	C	
MAR 1.81	FEB 28.81	800	800	****	****	3	2.1	2	1547	2	1	84		
MAR 2.81	MAR 1.81	800	805	****	****	2	0.7	2	1548	2	1	78	C	
MAR 3.81	MAR 2.81	800	755	****	****	2	1.8	2	1549	2	1	45	C	N
MAR 4.81	MAR 3.81	800	806	****	****	2	1.0	2	1550	2	1	86	C	
MAR 5.81	MAR 4.81	800	1405	****	****	2	3.2	2	1551	2	1	65	C	
MAR 7.81	MAR 6.81	800	809	530	800	2	1.4	2	1552	2	1	49		N
MAR 11.81	MAR 10.81	800	800	430	800	2	1.5	2	1553	2	1	79		
MAR 12.81	MAR 11.81	800	805	800	1200	2	0.4	2	1554	2	1	53		
MAR 13.81	MAR 12.81	805	810	800	1200	2	2.3	2	1555	2	1	64		
MAR 14.81	MAR 13.81	800	820	900	1200	2	0.8	2	1556	2	1	59		
MAR 16.81	MAR 15.81	815	800	1200	1900	2	4.0	2	1557	2	1	75		
MAR 17.81	MAR 16.81	800	805	330	800	2	1.5	2	1558	2	1	32		N
MAR 20.81	MAR 19.81	805	805	****	730	2	2.3	2	1559	2	1	80	CD	C
MAR 27.81	MAR 26.81	800	730	1900	2300	3	0.7	2	1560	2	1	171		N
MAR 30.81	MAR 29.81	800	800	2400	800	1	5.6	1	1561	2	1	116		
MAR 31.81	MAR 30.81	800	815	800	2200	1	14.0	1	1562	2	1	103		
APR 2.81	APR 1.81	800	745	900	1200	3	6.0	1	1563	2	1	97		
APR 4.81	APR 3.81	800	800	2230	330	1	10.4	1	1564	2	1	101	D	
APR 5.81	APR 4.81	800	815	1000	1200	1	1.2	1	1565	2	1	49	C	N
APR 6.81	APR 5.81	815	745	2400	1200	2	1.2	2	1566	2	1	56		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/SES #07

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 27.81	JAN 26.81	170.	34.5	*****	4.62	******	5.80	1.18
FEB 2.81	FEB 1.81	2217.	14.1	4.35	4.54	0.0552	0.75	0.25
FEB 3.81	FEB 2.81	113.	64.0	*****	3.88	******	4.40	1.90
FEB 4.81	FEB 3.81	109.	*****	*****	4.32	******	1.00	0.71
FEB 6.81	FEB 5.81	49.	*****	*****	*****	******	*****	*****
FEB 7.81	FEB 6.81	166.	*****	*****	4.08	0.1138	1.00	1.24
FEB 8.81	FEB 7.81	251.	51.8	*****	3.96	0.1500	2.05	1.49
FEB 9.81	FEB 8.81	25.	*****	*****	*****	******	*****	*****
FEB 11.81	FEB 10.81	4783.	15.4	4.28	4.51	0.0568	0.90	0.25
FEB 12.81	FEB 11.81	322.	32.7	*****	4.18	0.0986	2.55	0.59
FEB 13.81	FEB 12.81	32.	*****	*****	*****	******	*****	*****
FEB 17.81	FEB 16.81	306.	96.0	*****	3.72	0.2384	8.00	1.40
FEB 19.81	FEB 18.81	106.	*****	*****	3.47	******	10.80	2.90
FEB 20.81	FEB 19.81	26.	*****	*****	*****	******	*****	*****
FEB 21.81	FEB 20.81	399.	22.5	4.13	4.34	0.0736	1.75	0.33
FEB 22.81	FEB 21.81	49.	*****	*****	*****	******	*****	*****
FEB 23.81	FEB 22.81	321.	34.6	*****	4.37	0.0772	3.40	0.73
FEB 24.81	FEB 23.81	937.	25.2	4.21	4.34	0.0828	2.05	U 0.47
FEB 25.81	FEB 24.81	90.	*****	*****	4.30	******	4.80	2.01
FEB 28.81	FEB 27.81	839.	13.3	4.64	4.76	0.0458	1.45	0.36
MAR 1.81	FEB 28.81	292.	129.5	*****	3.57	0.3114	9.50	2.95
MAR 2.81	MAR 1.81	90.	*****	*****	4.17	******	5.10	0.59
MAR 3.81	MAR 2.81	U 134.	*****	*****	4.50	******	1.90	0.06
MAR 4.81	MAR 3.81	141.	*****	*****	4.90	******	0.50	0.73
MAR 5.81	MAR 4.81	343.	*****	3.96	4.00	******	2.45	1.46
MAR 7.81	MAR 6.81	U 114.	*****	*****	5.20	******	0.20	0.10
MAR 11.81	MAR 10.81	195.	*****	*****	4.30	******	2.00	0.31
MAR 12.81	MAR 11.81	35.	*****	*****	4.37	******	2.75	0.18
MAR 13.81	MAR 12.81	242.	*****	5.63	6.16	******	2.90	0.84
MAR 14.81	MAR 13.81	78.	*****	*****	4.34	******	2.35	0.13
MAR 16.81	MAR 15.81	494.	17.8	4.73	5.60	0.0368	2.95	0.72
MAR 17.81	MAR 16.81	U 80.	*****	*****	U 5.58	******	0.70	0.29
MAR 20.81	MAR 19.81	302.	U 78.5	*****	4.86	0.0384	0.55	0.10
MAR 27.81	MAR 26.81	197.	*****	*****	3.84	******	5.75	2.30
MAR 30.81	MAR 29.81	1074.	51.0	3.95	4.17	0.1196	6.90	0.93
MAR 31.81	MAR 30.81	2381.	26.4	4.18	4.32	0.0838	3.00	0.33
APR 2.81	APR 1.81	957.	21.0	4.51	4.66	0.0546	3.20	0.44
APR 4.81	APR 3.81	1724.	27.2	4.21	4.46	0.0712	3.90	0.47
APR 5.81	APR 4.81	U 98.	*****	*****	U 6.86	******	U 13.80	1.45
APR 6.81	APP 5.81	112.	*****	*****	4.30	******	3.60	0.11

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/SES #07 PAGE : 3

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 27.81	JAN 26.81	1.01	0.40	0.165	0.230	0.200	1.540	0.0240
FEB 2.81	FEB 1.81	0.07	0.11	0.005	0.010	0.030	0.100	0.0288
FEB 3.81	FEB 2.81	0.37	0.38	0.020	0.070	0.150	1.120	0.1318
FEB 4.81	FEB 3.81	*****	0.35	*****	*****	*****	0.078	0.0479
FEB 6.81	FEB 5.81	*****	*****	*****	*****	*****	*****	******
FEB 7.81	FEB 6.81	0.39	0.32	0.020	0.060	0.100	0.126	0.0832
FEB 8.81	FEB 7.81	0.38	0.57	0.030	0.040	0.120	0.370	0.1096
FEB 9.81	FEB 8.81	*****	*****	*****	*****	*****	*****	******
FEB 11.81	FEB 10.81	0.07	0.04	0.005	0.020	0.020	0.086	0.0309
FEB 12.81	FEB 11.81	0.45	0.22	0.020	0.100	0.110	0.214	0.0661
FEB 13.81	FEB 12.81	*****	*****	*****	*****	*****	*****	******
FEB 17.81	FEB 16.81	0.28	1.26	0.110	0.090	0.720	0.540	0.1905
FEB 19.81	FEB 18.81	*****	1.22	*****	*****	*****	1.770	0.3388
FEB 20.81	FEB 19.81	*****	*****	*****	*****	*****	*****	******
FEB 21.81	FEB 20.81	0.04	0.06	<T 0.005	0.020	0.040	0.110	0.0457
FEB 22.81	FEB 21.81	*****	*****	*****	*****	*****	*****	******
FEB 23.81	FEB 22.81	0.48	0.90	*****	0.130	1.170	0.540	0.0427
FEB 24.81	FEB 23.81	U 0.26	0.25	0.020	U 0.060	U 0.130	U 0.226	0.0457
FEB 25.81	FEB 24.81	*****	0.51	*****	*****	*****	1.300	0.0501
FEB 28.81	FEB 27.81	0.55	0.19	0.050	0.070	0.120	0.214	0.0174
MAR 1.81	FEB 28.81	U 0.59	U 0.94	0.065	0.130	U 0.190	1.800	0.2692
MAR 2.81	MAR 1.81	*****	0.26	*****	*****	*****	0.850	0.0676
MAR 3.81	MAR 2.81	0.11	0.05	0.020	0.020	0.060	0.118	0.0316
MAR 4.81	MAR 3.81	0.81	0.30	0.095	0.050	0.130	0.138	0.0126
MAR 5.81	MAR 4.81	0.35	0.48	0.040	0.040	0.060	0.730	0.1000
MAR 7.81	MAR 6.81	0.14	0.14	0.020	0.030	0.090	<T 0.002	0.0063
MAR 11.81	MAR 10.81	0.15	0.08	0.020	0.040	0.040	0.106	0.0501
MAR 12.81	MAR 11.81	*****	0.22	*****	*****	*****	*****	0.0427
MAR 13.81	MAR 12.81	1.34	0.14	0.255	0.090	0.120	0.780	0.0007
MAR 14.81	MAR 13.81	*****	0.17	*****	*****	*****	0.060	0.0457
MAR 16.81	MAR 15.81	1.02	0.20	0.125	0.090	0.100	0.860	0.0025
MAR 17.81	MAR 16.81	*****	0.16	*****	*****	*****	0.220	U 0.0026
MAR 20.81	MAR 19.81	0.09	0.38	0.015	0.030	0.240	0.030	0.0138
MAR 27.81	MAR 26.81	1.08	0.43	0.075	0.100	0.150	1.130	0.1445
MAR 30.81	MAR 29.81	1.04	0.44	0.180	0.100	0.300	U 1.050	0.0676
MAR 31.81	MAR 30.81	0.45	0.08	0.015	0.040	0.050	0.348	0.0479
APR 2.81	APR 1.81	0.75	0.12	0.110	0.050	0.080	0.410	0.0219
APR 4.81	APR 3.81	0.79	0.17	0.100	0.060	0.090	0.420	0.0347
APR 5.81	APR 4.81	*****	0.88	*****	*****	*****	*****	U 0.0001
APR 6.81	APR 5.81	*****	0.04	*****	*****	*****	0.154	0.0501

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/SES #07

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
APR 9.81	APR 8.81	800	750	1800	800	1	13.4	1	2066	2	1	103	C	
APR 10.81	APR 9.81	750	755	100	300	1	0.6	1	2067	2	1	74		
APR 11.81	APR 10.81	755	815	330	600	1	1.8	1	2068	2	1	111	CD	L
APR 14.81	APR 13.81	800	800	400	800	1	10.0	1	2069	2	1	102		
APR 15.81	APR 14.81	800	800	800	1200	1	7.5	1	2070	2	1	87		
APR 17.81	APR 16.81	800	800	****	530	1	2.2	1	2071	2	1	109	CA	M
APR 18.81	APR 17.81	800	800	100	300	1	5.4	1	2072	2	1	98	C	
APR 20.81	APR 19.81	800	800	1730	1800	3	1.5	2	2073	2	1	77	A	
APR 24.81	APR 23.81	730	750	1000	1300	1	7.0	1	2074	2	1	110	C	
APR 25.81	APR 24.81	730	1015	900	1200	1	3.0	1	2075	2	1	77	LC	
APR 29.81	APR 28.81	830	830	1000	2400	1	7.4	1	2076	2	1	43	C	N
NOV 6.81	NOV 5.81	730	730	600	730	1	1.0	1	28057	2	1	103		
NOV 7.81	NOV 6.81	730	630	1200	1500	3	****	*	28058	2	1	****	C	
NOV 11.81	NOV 10.81	730	830	400	830	3	0.5	1	28059	2	1	48	C	N
NOV 19.81	NOV 16.81	730	730	400	630	1	20.0	2	28060	2	1	13	G	NZ
NOV 20.81	NOV 19.81	730	730	****	****	2	2.4	2	28061	2	1	73	GC	
NOV 21.81	NOV 20.81	730	730	600	730	2	14.4	2	28062	2	1	78	G	M
NOV 27.81	NOV 26.81	730	730	2300	200	3	****	2	28063	2	1	****		
NOV 28.81	NOV 27.81	730	730	1300	1600	1	2.8	2	28064	2	1	94		
DEC 2.81	DEC 1.81	730	745	1400	1600	1	4.0	2	28065	2	1	49		N
DEC 3.81	DEC 2.81	745	730	1000	1200	1	1.8	2	28066	2	1	110		
DEC 4.81	DEC 3.81	730	730	1600	1700	1	0.8	2	28067	2	1	99	DC	
DEC 8.81	DEC 7.81	730	730	1800	2100	2	3.2	2	28068	2	1	73	G	
DEC 14.81	DEC 13.81	730	730	1100	1400	2	1.0	2	28069	2	1	91		
DEC 15.81	DEC 14.81	730	730	1200	1600	2	4.4	2	28070	2	1	93	C	
DEC 19.81	DEC 18.81	730	730	400	600	2	0.5	2	28071	2	1	176		N
DEC 22.81	DEC 21.81	730	800	1100	1400	2	5.0	2	28072	2	1	54	C	
DEC 23.81	DEC 22.81	730	800	100	600	2	5.2	2	28073	2	1	87	C	
DEC 25.81	DEC 24.81	730	800	1500	830	2	10.0	2	28074	2	1	57	C	
DEC 26.81	DEC 25.81	800	800	730	1300	2	3.0	2	28075	2	1	56	C	
DEC 28.81	DEC 27.81	730	830	****	****	2	6.0	2	28076	2	1	45	C	N
DEC 29.81	DEC 28.81	830	800	1300	1600	2	1.4	2	28077	2	1	84	C	
JAN 1.82	DEC 31.81	830	900	2300	200	2	18.0	2	28078	2	1	16		N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/SES #07

REMOVAL DATE	EXPOSURE DATE		VOLUME ML	CONDUCT. UMHO/CM		PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L		NITRATE AS N MG/L
APR 9-81	APR 8,81		2272.	32.5		4.44		4.78	0.0590	5.50		0.98
APR 10-81	APR 9,81		73.	*****		*****		4.12	******	3.55		0.33
APR 11-81	APR 10,81		329.	86.5		3.97		4.17	0.1446	11.00		3.50
APR 14-81	APR 13,81		1686.	24.6		4.19		4.31	0.0782	2.15		0.36
APR 15-81	APR 14,81		1070.	16.8		4.27		4.47	0.0576	1.50		0.17
APR 17-81	APR 16,81		395.	23.4	U	6.23	U	6.88	0.0228	3.45		0.86
APR 18-81	APR 17,81		875.	73.0		3.69		3.90	0.1804	7.45		1.71
APR 20-81	APR 19,81		190.	*****		*****		4.66	******	3.45		0.35
APR 24-81	APR 23,81		1271.	43.1		3.91		4.06	0.1254	3.90		0.57
APR 25-81	APR 24,81		381.	18.5		4.16		4.44	0.0688	1.10		0.24
APR 29-81	APR 28,81	U	530.	30.0		4.05		4.28	0.0896	3.75		0.31
NOV 6-81	NOV 5,81		170.	*****		*****		3.81	0.2056	*****		*****
NOV 7-81	NOV 6,81		1103.	7.2		4.78		5.00	0.0376	0.80		0.13
NOV 11-81	NOV 10,81	U	40.	*****		*****		4.13	******	> 10.00	>	2.00
NOV 19-81	NOV 16,81	U	455.	10.7		4.57		4.61	0.0672	1.00		0.07
NOV 20-81	NOV 19,81		290.	14.6		*****		4.61	0.0592	1.30		0.17
NOV 21-81	NOV 20,81		1850.	11.7		4.55		4.62	0.0604	1.30		0.17
NOV 27-81	NOV 26,81		6650.	31.0		4.16		4.20	0.1034	2.50		0.41
NOV 28-81	NOV 27,81		435.	43.1		3.99		4.01	0.1342	3.00		0.78
DEC 2-81	DEC 1,81		325.	63.5		*****		3.88	0.1852	4.25		1.43
DEC 3-81	DEC 2,81		325.	42.5		*****		4.08	0.1228	3.15		0.94
DEC 4-81	DEC 3,81		130.	*****		*****	U	7.04	******	4.95		0.01
DEC 8-81	DEC 7,81		385.	66.2		3.83		3.87	0.1706	4.10		1.82
DEC 14-81	DEC 13,81		150.	73.0		*****		3.92	******	5.80		1.82
DEC 15-81	DEC 14,81		675.	42.5		3.95		4.02	******	1.80		1.10
DEC 19-81	DEC 18,81		145.	9.2		*****		5.52	******	0.70		0.32
DEC 22-81	DEC 21,81		450.	11.4		4.74		4.78	0.0764	0.80		0.37
DEC 23-81	DEC 22,81		750.	13.5		4.52		4.58	0.0882	0.60		0.36
DEC 25-81	DEC 24,81		935.	20.6		4.34		4.40	0.0872	1.00		0.59
DEC 26-81	DEC 25,81		280.	29.3		*****		4.21	0.1080	1.15		0.90
DEC 28-81	DEC 27,81	U	445.	24.5		4.24		4.29	0.0896	1.20		0.61
DEC 29-81	DEC 28,81		195.	29.8		*****		4.26	******	1.50		0.89
JAN 1-82	DEC 31,81	U	480.	22.8		4.23		4.29	0.0890	1.30		0.44

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/SES #07 PAGE : 6

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
APR 9,81	APR 8,81	1.39	0.30	0.290	0.130	0.220	1.200	0.0166
APR 10,81	APR 9,81	0.17	0.11	0.025	0.090	0.090	*****	0.0759
APR 11,81	APR 10,81	3.80	0.64	0.575	0.280	0.510	U 2.500	0.0676
APR 14,81	APR 13,81	0.12	0.08	0.010	0.020	0.080	0.256	0.0490
APR 15,81	APR 14,81	0.10	0.10	<T 0.005	0.100	0.070	0.134	0.0339
APR 17,81	APR 16,81	U 3.35	0.19	U 0.500	0.200	0.240	0.550	U 0.0001
APR 18,81	APR 17,81	0.73	0.26	0.110	0.070	0.150	1.500	0.1259
APR 20,81	APR 19,81	0.54	0.11	0.070	0.110	0.110	0.670	0.0219
APR 24,81	APR 23,81	0.22	0.05	0.015	0.030	0.030	0.280	0.0871
APR 25,81	APR 24,81	0.03	U 0.13	<T 0.005	<T 0.010	0.030	0.046	0.0363
APR 29,81	APR 28,81	0.19	0.03	0.020	0.020	0.040	0.460	0.0525
NOV 6,81	NOV 5,81	1.27	*****	0.170	0.320	0.290	0.890	0.1549
NOV 7,81	NOV 6,81	0.20	0.02	0.010	0.030	0.010	0.062	0.0100
NOV 11,81	NOV 10,81	*****	1.80	*****	*****	*****	*****	0.0741
NOV 19,81	NOV 16,81	0.03	<T 0.01	0.005	<T 0.010	0.060	0.074	0.0245
NOV 20,81	NOV 19,81	0.11	<T 0.01	0.020	0.060	0.020	0.176	0.0245
NOV 21,81	NOV 20,81	0.02	<T 0.01	<T 0.005	<T 0.010	0.020	0.084	0.0240
NOV 27,81	NOV 26,81	0.14	0.05	0.010	0.010	0.060	0.268	0.0631
NOV 28,81	NOV 27,81	0.12	<T 0.01	0.015	0.020	0.040	0.376	0.0977
DEC 2,81	DEC 1,81	0.48	0.18	0.025	0.100	0.060	0.600	0.1318
DEC 3,81	DEC 2,81	0.20	0.04	0.020	0.050	0.050	0.700	0.0832
DEC 4,81	DEC 3,81	1.55	U 16.40	0.290	8.200	U *****	U 4.850	U 0.0001
DEC 8,81	DEC 7,81	0.30	0.36	0.040	0.110	0.080	*****	0.1349
DEC 14,81	DEC 13,81	0.56	0.38	0.125	0.070	0.100	*****	0.1202
DEC 15,81	DEC 14,81	0.14	0.20	0.025	0.030	0.050	*****	0.0955
DEC 19,81	DEC 18,81	0.46	0.20	0.040	0.210	0.070	*****	0.0030
DEC 22,81	DEC 21,81	0.46	0.26	0.045	U 0.100	0.050	*****	0.0166
DEC 23,81	DEC 22,81	U 0.15	0.10	U 0.025	U 0.070	U 0.060	*****	0.0263
DEC 25,81	DEC 24,81	0.12	0.14	0.035	0.030	0.070	*****	0.0398
DEC 26,81	DEC 25,81	0.13	0.30	0.030	0.130	0.120	*****	0.0617
DEC 28,81	DEC 27,81	0.07	0.09	0.010	0.030	0.030	*****	0.0513
DEC 29,81	DEC 28,81	0.25	0.28	U 0.040	U 0.160	0.090	*****	0.0550
JAN 1,82	DEC 31,81	0.03	0.08	<T 0.005	0.020	0.020	*****	0.0513

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08 PAGE : 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JUL 15.80	JUL 14.80	930	915	2030	915	1	3.6	1	332	2	1	97		CL
JUL 17.80	JUL 16.80	900	920	100	300	1	5.0	1	333	2	1	101		
JUL 18.80	JUL 17.80	920	920	1300	1330	1	0.8	1	334	2	1	****	EFI	
JUL 19.80	JUL 18.80	920	900	600	730	1	0.9	1	335	2	1	43	G	N
JUL 21.80	JUL 20.80	900	930	1300	930	1	10.2	1	336	2	1	100		
JUL 23.80	JUL 22.80	930	930	230	930	1	1.8	1	337	2	1	88		
JUL 24.80	JUL 23.80	930	945	930	945	1	0.4	1	338	2	1	****	E	
JUL 25.80	JUL 24.80	945	915	****	****	1	0.4	1	339	2	1	****	E	
JUL 26.80	JUL 25.80	915	900	1200	1300	1	9.6	1	340	2	1	26		N
JUL 27.80	JUL 26.80	900	900	2130	700	1	97.0	1	341	2	1	110	F	
JUL 28.80	JUL 27.80	900	930	200	700	1	4.2	1	342	2	1	92	F	
JUL 29.80	JUL 28.80	930	940	900	2200	1	39.6	1	343	2	1	103		
AUG 6.80	AUG 5.80	945	930	1800	1900	1	16.4	1	344	2	1	102	F	
AUG 9.80	AUG 7.80	920	900	1100	1800	1	4.2	1	345	2	1	102	AF	Z
AUG 12.80	AUG 11.80	925	920	2200	400	1	1.6	1	346	2	1	74	C	
AUG 15.80	AUG 14.80	900	900	900	1400	1	10.0	1	347	2	1	100		
AUG 22.80	AUG 21.80	900	930	800	930	1	7.9	1	348	2	1	101	A	H
AUG 23.80	AUG 22.80	930	900	900	1800	1	13.4	1	349	2	1	100		
AUG 27.80	AUG 26.80	900	940	300	400	1	8.2	1	350	2	1	93		
AUG 28.80	AUG 27.80	940	940	2000	2100	1	1.6	1	351	2	1	85		
AUG 29.80	AUG 28.80	940	1000	800	900	1	0.8	1	352	2	1	99		
AUG 30.80	AUG 29.80	1000	900	1000	1500	1	16.7	1	353	2	1	97		
AUG 31.80	AUG 30.80	900	900	1000	1100	1	12.5	1	354	2	1	100		
SEP 1.80	AUG 31.80	900	900	****	****	1	15.8	1	355	2	1	99		
SEP 2.80	SEP 1.80	900	930	****	****	1	1.6	1	356	2	1	78		
SEP 3.80	SEP 2.80	930	945	1400	1900	1	16.6	1	357	2	1	102		
SEP 10.80	SEP 9.80	900	940	1200	1800	1	6.8	1	358	2	1	83		
SEP 14.80	SEP 13.80	900	900	1200	2300	1	14.6	1	359	2	1	97		
SEP 15.80	SEP 14.80	900	945	1600	1700	1	1.0	1	360	2	1	68		
SEP 17.80	SEP 16.80	900	940	800	940	1	5.1	1	361	2	1	103		
SEP 18.80	SEP 17.80	940	940	940	1500	1	23.4	1	362	2	1	101		
SEP 23.80	SEP 22.80	940	940	1900	2300	1	11.4	1	363	2	1	100	A	C
SEP 26.80	SEP 25.80	940	930	2100	2300	1	4.4	1	364	2	1	95		H
SEP 28.80	SEP 27.80	930	900	1500	2100	1	3.2	1	365	2	1	73		
OCT 2.80	OCT 1.80	900	930	600	800	1	19.0	1	366	2	1	102	C	
OCT 4.80	OCT 3.80	900	900	1600	1900	1	19.0	1	367	2	1	96		
OCT 5.80	OCT 4.80	900	900	1200	2200	1	6.0	1	368	2	1	76		
OCT 7.80	OCT 6.80	900	915	900	900	1	1.2	1	369	2	1	58		V
OCT 12.80	OCT 11.80	900	900	****	2400	1	5.8	1	370	2	1	89		
OCT 18.80	OCT 17.80	900	900	1700	400	1	21.1	1	371	2	1	99		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JUL 15.80	JUL 14.80	224.	43.1	*****	4.04	0.0950	5.45	1.30
JUL 17.80	JUL 16.80	325.	12.4	*****	4.64	0.0470	0.85	0.26
JUL 18.80	JUL 17.80	*****	*****	*****	*****	******	*****	*****
JUL 19.80	JUL 18.80	U 25.	*****	*****	4.16	******	*****	*****
JUL 21.80	JUL 20.80	655.	24.9	4.15	4.31	0.0770	2.45	0.44
JUL 23.80	JUL 22.80	102.	*****	*****	4.51	******	1.60	0.21
JUL 24.80	JUL 23.80	*****	*****	*****	*****	******	*****	*****
JUL 25.80	JUL 24.80	*****	*****	*****	*****	******	*****	*****
JUL 26.80	JUL 25.80	U 161.	*****	*****	4.39	0.0580	1.95	0.28
JUL 27.80	JUL 26.80	6893.	12.2	4.44	4.65	0.0468	1.30	0.13
JUL 28.80	JUL 27.80	248.	*****	*****	3.80	******	6.90	0.47
JUL 29.80	JUL 28.80	2628.	21.1	4.24	4.32	0.0696	1.95	0.20
AUG 6.80	AUG 5.80	1080.	22.0	4.23	4.40	0.0686	2.35	0.29
AUG 9.80	AUG 7.80	275.	39.0	*****	4.16	0.1038	3.95	0.68
AUG 12.80	AUG 11.80	76.	*****	*****	4.41	******	> 10.00	> 2.00
AUG 15.80	AUG 14.80	644.	79.0	3.72	3.69	0.2116	6.45	1.25
AUG 22.80	AUG 21.80	512.	26.4	4.14	4.32	0.0768	2.50	0.24
AUG 23.80	AUG 22.80	864.	29.1	4.22	4.14	0.0878	2.75	0.24
AUG 27.80	AUG 26.80	493.	33.4	4.08	4.15	0.0940	3.60	0.39
AUG 28.80	AUG 27.80	88.	*****	*****	3.31	******	25.70	2.50
AUG 29.80	AUG 28.80	51.	*****	*****	3.73	******	7.40	0.97
AUG 30.80	AUG 29.80	1046.	86.2	3.71	3.75	0.2196	9.50	0.78
AUG 31.80	AUG 30.80	804.	76.5	3.76	3.80	U 0.0790	8.80	0.60
SEP 1.80	AUG 31.80	1008.	42.4	3.99	4.06	0.1138	4.45	0.51
SEP 2.80	SEP 1.80	80.	*****	*****	3.86	******	5.30	0.96
SEP 3.80	SEP 2.80	1091.	9.6	4.64	4.69	0.0406	0.80	0.11
SEP 10.80	SEP 9.80	364.	45.7	3.98	4.00	0.1284	4.85	0.58
SEP 14.80	SEP 13.80	908.	43.0	3.92	4.05	0.1274	4.55	0.36
SEP 15.80	SEP 14.80	44.	*****	*****	4.45	******	*****	*****
SEP 17.80	SEP 16.80	337.	86.5	3.66	3.73	0.2362	8.25	1.17
SEP 18.80	SEP 17.80	1529.	37.0	4.02	4.11	0.1062	3.70	0.31
SEP 23.80	SEP 22.80	731.	U 43.6	4.40	4.54	0.0526	0.90	0.44
SEP 26.80	SEP 25.80	268.	24.5	*****	4.37	0.0878	4.75	0.81
SEP 28.80	SEP 27.80	151.	*****	*****	4.58	0.0550	3.20	0.40
OCT 2.80	OCT 1.80	1250.	20.2	4.38	4.41	0.0670	2.30	0.30
OCT 4.80	OCT 3.80	1171.	28.8	4.09	4.17	0.0998	1.90	0.58
OCT 5.80	OCT 4.80	295.	19.8	*****	4.27	0.0736	0.90	0.44
OCT 7.80	OCT 6.80	45.	*****	*****	4.00	******	5.85	1.39
OCT 12.80	OCT 11.80	332.	10.0	*****	4.88	0.0488	1.15	0.29
OCT 16.80	OCT 17.80	1345.	24.0	4.23	4.24	0.0836	2.30	0.31

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JUL 15.80	JUL 14.80	1.49	0.30	0.175	0.110	0.140	0.510	0.0912
JUL 17.80	JUL 16.80	0.08	0.04	0.015	0.030	0.050	0.144	0.0229
JUL 18.80	JUL 17.80	*****	*****	*****	*****	*****	*****	******
JUL 19.80	JUL 18.80	*****	*****	*****	*****	*****	*****	0.0692
JUL 21.80	JUL 20.80	0.26	0.11	0.035	0.030	0.030	0.314	0.0490
JUL 23.80	JUL 22.80	*****	0.12	*****	*****	*****	0.084	0.0309
JUL 24.80	JUL 23.80	*****	*****	*****	*****	*****	*****	******
JUL 25.80	JUL 24.80	*****	*****	*****	*****	*****	*****	******
JUL 26.80	JUL 25.80	0.14	0.08	0.040	0.020	0.010	*****	0.0407
JUL 27.80	JUL 26.80	0.02	0.02	< 0.005	< 0.010	0.010	0.242	0.0224
JUL 28.80	JUL 27.80	0.11	0.18	0.020	0.030	0.040	0.254	0.1585
JUL 29.80	JUL 28.80	0.02	0.04	< 0.005	0.010	0.010	0.110	0.0479
AUG 6.80	AUG 5.80	0.10	0.07	0.015	0.010	0.030	0.280	0.0398
AUG 9.80	AUG 7.80	0.36	0.16	0.050	0.030	0.090	0.510	0.0692
AUG 12.80	AUG 11.80	*****	> 1.50	*****	*****	*****	*****	0.0389
AUG 15.80	AUG 14.80	0.32	0.32	0.070	0.030	0.020	0.490	0.2042
AUG 22.80	AUG 21.80	0.03	0.09	0.005	< 0.010	0.020	0.148	0.0479
AUG 23.80	AUG 22.80	0.04	0.11	0.010	0.020	0.040	0.076	0.0724
AUG 27.80	AUG 26.80	0.20	0.10	0.025	0.020	0.030	0.330	0.0708
AUG 28.80	AUG 27.80	*****	0.48	*****	*****	*****	*****	0.4898
AUG 29.80	AUG 28.80	*****	0.21	*****	*****	*****	*****	0.1862
AUG 30.80	AUG 29.80	0.32	0.19	0.045	0.020	0.040	0.770	0.1778
AUG 31.80	AUG 30.80	0.16	0.15	0.020	0.010	0.010	0.520	0.1585
SEP 1.80	AUG 31.80	0.06	0.13	0.005	0.010	0.020	0.580	0.0871
SEP 2.80	SEP 1.80	*****	0.14	*****	*****	*****	*****	0.1380
SEP 3.80	SEP 2.80	< 0.01	0.03	< 0.005	< 0.010	< 0.010	0.110	0.0204
SEP 10.80	SEP 9.80	0.14	0.11	0.015	< 0.010	0.010	0.470	0.1000
SEP 14.80	SEP 13.80	0.07	0.08	0.005	0.010	0.010	0.314	0.0891
SEP 15.80	SEP 14.80	*****	*****	*****	*****	*****	*****	0.0355
SEP 17.80	SEP 16.80	0.14	0.23	0.020	0.020	0.020	0.900	0.1862
SEP 18.80	SEP 17.80	0.01	0.08	< 0.005	< 0.010	< 0.010	0.440	0.0776
SEP 23.80	SEP 22.80	0.14	0.04	0.015	< 0.010	0.010	0.138	0.0288
SEP 26.80	SEP 25.80	0.09	0.14	0.020	0.030	0.090	0.168	0.0427
SEP 28.80	SEP 27.80	0.29	0.09	0.050	0.020	0.020	*****	0.0263
OCT 2.80	OCT 1.80	0.20	0.06	0.035	< 0.010	< 0.010	0.370	0.0389
OCT 4.80	OCT 3.80	0.08	0.09	0.015	0.010	0.010	0.272	0.0676
OCT 5.80	OCT 4.80	0.02	0.04	< 0.005	0.030	0.070	0.076	0.0537
OCT 7.80	OCT 6.80	*****	0.30	*****	*****	*****	*****	0.1000
OCT 12.80	OCT 11.80	0.19	< 0.01	0.015	0.020	0.040	0.290	0.0132
OCT 18.80	OCT 17.80	0.11	0.05	0.020	0.010	0.190	0.240	0.0575

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
OCT 19.80	OCT 18.80	900	900	1700	600	1	4.2	1	372	2	1	77	C	
OCT 20.80	OCT 19.80	900	900	2000	2230	1	1.4	1	373	2	1	51		
OCT 21.80	OCT 20.80	900	900	2200	630	3	3.4	1	374	2	1	83		
OCT 22.80	OCT 21.80	900	1000	1400	2000	3	1.4	1	375	2	1	66		
OCT 25.80	OCT 24.80	900	900	800	900	1	1.2	1	376	2	1	70		
OCT 26.80	OCT 25.80	900	800	900	600	1	35.7	1	377	2	1	94		
OCT 27.80	OCT 26.80	800	800	800	1430	3	3.0	1	378	2	1	75		
NOV 4.80	NOV 3.80	800	1015	1200	1800	1	12.0	1	379	2	1	103		
NOV 5.80	NOV 4.80	1015	930	1015	1500	3	4.8	1	380	2	1	94		
NOV 7.80	NOV 6.80	845	815	****	****	3	4.2	1	381	2	1	87		
NOV 8.80	NOV 7.80	800	800	****	****	3	3.2	1	382	2	1	91		
NOV 9.80	NOV 8.80	800	800	****	****	1	6.8	1	383	2	1	111		
NOV 11.80	NOV 9.80	800	800	****	****	1	1.6	1	384	2	1	90		
NOV 13.80	NOV 12.80	800	800	****	****	3	4.4	1	385	2	1	109	B	
NOV 14.80	NOV 13.80	800	800	****	****	3	12.2	1	386	2	1	102		
NOV 22.80	NOV 21.80	800	800	****	****	3	3.5	1	387	2	1	91		
NOV 24.80	NOV 23.80	800	800	****	****	1	3.8	1	388	2	1	85		
NOV 25.80	NOV 24.80	800	800	800	800	3	3.6	1	389	2	1	58	CL	
NOV 29.80	NOV 28.80	800	800	****	****	2	5.0	2	390	2	1	190		
NOV 30.80	NOV 29.80	800	800	****	****	2	1.2	2	391	2	1	163		
DEC 2.80	DEC 1.80	800	800	****	****	2	4.4	2	392	2	1	93		
DEC 3.80	DEC 2.80	800	800	****	****	2	34.8	2	393	2	1	56		
DEC 8.80	DEC 7.80	800	800	****	****	1	10.5	2	394	2	1	90		
DEC 9.80	DEC 8.80	800	800	****	****	1	12.2	2	395	2	1	103		
DEC 11.80	DEC 10.80	800	800	****	****	2	4.8	2	396	2	1	61		
DEC 13.80	DEC 12.80	800	800	****	****	2	6.6	2	397	2	1	82		
DEC 14.80	DEC 13.80	800	800	****	****	2	6.2	2	398	2	1	57		
DEC 16.80	DEC 15.80	800	800	****	****	2	0.6	2	399	2	1	57	C	
DEC 19.80	DEC 18.80	800	800	****	****	2	10.8	2	400	2	1	63	C	
DEC 23.80	DEC 22.80	800	800	****	****	2	3.2	2	401	2	1	53		
DEC 24.80	DEC 23.80	800	820	****	****	2	4.0	2	402	2	1	59		
DEC 29.80	DEC 28.80	800	800	****	****	2	11.8	2	403	2	1	96		
JAN 2.81	JAN 1.81	800	800	****	****	2	3.2	2	404	2	1	51		
JAN 7.81	JAN 6.81	800	830	****	****	2	7.4	2	405	2	1	77		
MAY 6.81	MAY 5.81	900	900	1730	2400	1	5.6	1	27001	2	1	95		
MAY 11.81	MAY 10.81	900	900	1200	700	1	24.9	1	27003	2	1	99		
MAY 12.81	MAY 11.81	900	900	900	700	1	15.2	1	27005	2	1	90		
MAY 13.81	MAY 12.81	900	1000	1800	800	1	3.4	1	27007	2	1	61		
MAY 15.81	MAY 14.81	900	1000	2100	700	1	2.4	1	27009	2	1	83		
MAY 25.81	MAY 24.81	900	910	1530	910	1	1.9	1	27011	2	1	74	C	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
OCT 19.80	OCT 18.80	209.	12.4	*****	4.75	0.0480	1.95	0.22
OCT 20.80	OCT 19.80	46.	*****	*****	5.62	******	0.55	< 0.02
OCT 21.80	OCT 20.80	182.	*****	*****	4.57	0.0492	1.00	0.13
OCT 22.80	OCT 21.80	60.	*****	*****	4.56	******	1.40	0.12
OCT 25.80	OCT 24.80	54.	*****	*****	4.10	******	2.25	0.71
OCT 26.80	OCT 25.80	2163.	5.8	4.76	4.80	0.0358	0.40	0.09
OCT 27.80	OCT 26.80	145.	*****	*****	4.52	0.0478	1.25	0.16
NOV 4.80	NOV 3.80	798.	33.5	4.14	4.20	0.0974	3.20	0.76
NOV 5.80	NOV 4.80	298.	23.5	*****	4.36	0.0780	2.10	0.52
NOV 7.80	NOV 6.80	235.	27.7	*****	4.59	******	3.25	1.02
NOV 8.80	NOV 7.80	188.	25.5	*****	4.35	******	1.90	0.76
NOV 9.80	NOV 8.80	484.	34.4	4.00	4.16	0.1012	2.95	0.73
NOV 11.80	NOV 9.80	93.	104.0	*****	3.79	******	10.80	3.45
NOV 13.80	NOV 12.80	310.	23.8	*****	4.30	0.0718	2.00	0.34
NOV 14.80	NOV 13.80	802.	44.2	4.05	4.10	0.1110	3.75	0.97
NOV 22.80	NOV 21.80	206.	46.4	*****	4.21	******	3.70	1.54
NOV 24.80	NOV 23.80	209.	36.5	*****	4.11	******	3.30	0.27
NOV 25.80	NOV 24.80	135.	66.0	*****	3.83	******	3.65	1.59
NOV 29.80	NOV 28.80	610.	20.0	4.34	4.34	0.0700	0.95	0.41
NOV 30.80	NOV 29.80	126.	16.5	*****	4.43	******	1.10	0.23
DEC 2.80	DEC 1.80	265.	19.0	*****	4.38	******	0.85	0.50
DEC 3.80	DEC 2.80	1251.	13.6	4.33	4.47	0.0550	1.05	0.17
DEC 8.80	DEC 7.80	610.	28.0	3.96	4.25	0.0982	2.65	0.19
DEC 9.80	DEC 8.80	810.	10.4	4.35	4.56	0.0588	0.75	0.05
DEC 11.80	DEC 10.80	190.	*****	*****	4.69	******	0.55	0.12
DEC 13.80	DEC 12.80	347.	12.7	4.36	4.55	0.0624	0.80	0.31
DEC 14.80	DEC 13.80	227.	*****	*****	4.76	0.0452	0.55	0.18
DEC 16.80	DEC 15.80	22.	*****	*****	4.55	******	*****	*****
DEC 19.80	DEC 18.80	440.	13.8	4.50	4.48	0.0696	0.80	0.38
DEC 23.80	DEC 22.80	109.	*****	*****	4.19	******	0.35	0.62
DEC 24.80	DEC 23.80	153.	20.7	*****	4.27	******	0.60	0.66
DEC 29.80	DEC 28.80	729.	12.4	4.35	4.46	0.0674	0.30	0.32
JAN 2.81	JAN 1.81	105.	*****	*****	4.68	******	0.20	0.26
JAN 7.81	JAN 6.81	369.	17.0	4.38	4.34	0.0792	0.35	0.50
MAY 6.81	MAY 5.81	343.	38.5	*****	4.30	0.0850	3.80	0.75
MAY 11.81	MAY 10.81	1588.	36.6	3.99	4.14	0.1050	3.65	0.38
MAY 12.81	MAY 11.81	882.	15.6	4.40	4.50	0.0564	1.20	0.19
MAY 13.81	MAY 12.81	135.	*****	*****	4.34	******	2.35	0.07
MAY 15.81	MAY 14.81	128.	*****	*****	3.75	******	8.00	1.06
MAY 25.81	MAY 24.81	91.	*****	*****	3.51	******	15.00	2.17

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08 PAGE : 6

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
OCT 19,80	OCT 18,80	0.10	0.07	0.005	0.070	0.060	0.400	0.0178
OCT 20,80	OCT 19,80	*****	*****	*****	*****	*****	*****	0.0024
OCT 21,80	OCT 20,80	0.04	< 0.01	< 0.005	0.050	< 0.010	0.070	0.0269
OCT 22,80	OCT 21,80	*****	0.02	*****	*****	*****	*****	0.0275
OCT 25,80	OCT 24,80	*****	0.15	*****	*****	*****	*****	0.0794
OCT 26,80	OCT 25,80	0.02	< 0.01	0.005	< 0.010	0.010	0.014	0.0158
OCT 27,80	OCT 26,80	0.05	0.05	0.010	0.040	0.150	0.018	0.0302
NOV 4,80	NOV 3,80	0.46	0.59	0.085	0.050	0.030	0.510	0.0631
NOV 5,80	NOV 4,80	0.08	0.65	0.015	0.030	0.020	0.460	0.0437
NOV 7,80	NOV 6,80	0.83	0.65	0.145	0.080	0.040	1.050	0.0257
NOV 8,80	NOV 7,80	0.29	0.69	0.045	0.070	0.040	0.480	0.0447
NOV 9,80	NOV 8,80	0.24	0.12	0.020	0.040	0.030	0.470	0.0692
NOV 11,80	NOV 9,80	*****	0.65	*****	*****	*****	*****	0.1622
NOV 13,80	NOV 12,80	0.15	0.17	0.030	0.020	0.030	0.210	0.0501
NOV 14,80	NOV 13,80	0.46	0.27	0.050	0.040	0.050	0.780	0.0794
NOV 22,80	NOV 21,80	0.85	0.22	0.115	0.060	0.040	1.200	0.0617
NOV 24,80	NOV 23,80	0.12	0.25	0.010	0.010	0.010	0.094	0.0776
NOV 25,80	NOV 24,80	0.09	0.24	0.025	0.060	0.050	0.600	0.1479
NOV 29,80	NOV 28,80	0.01	0.07	< 0.005	< 0.010	0.010	0.068	0.0457
NOV 30,80	NOV 29,80	0.01	0.16	< 0.005	< 0.010	0.010	0.198	0.0372
DEC 2,80	DEC 1,80	0.06	0.06	0.005	0.010	0.020	0.078	0.0417
DEC 3,80	DEC 2,80	0.05	0.02	0.010	0.020	0.010	0.730	0.0339
DEC 8,80	DEC 7,80	0.23	0.14	0.025	0.060	0.100	0.124	0.0562
DEC 9,80	DEC 8,80	< 0.01	0.01	< 0.005	0.010	0.010	0.010	0.0275
DEC 11,80	DEC 10,80	0.02	0.04	< 0.005	0.010	0.060	0.078	0.0204
DEC 13,80	DEC 12,80	0.12	0.05	0.015	0.010	0.040	0.166	0.0282
DEC 14,80	DEC 13,80	0.10	0.05	0.015	0.010	0.030	0.094	0.0174
DEC 16,80	DEC 15,80	*****	*****	*****	*****	*****	*****	0.0282
DEC 19,80	DEC 18,80	0.10	0.06	0.020	< 0.010	0.030	0.152	0.0331
DEC 23,80	DEC 22,80	0.10	0.54	0.010	< 0.010	0.050	< 0.002	0.0646
DEC 24,80	DEC 23,80	0.16	0.22	0.020	0.010	0.100	0.106	0.0537
DEC 29,80	DEC 28,80	0.01	0.03	< 0.005	< 0.010	0.010	0.044	0.0347
JAN 2,81	JAN 1,81	0.04	0.18	0.005	0.130	0.100	0.044	0.0209
JAN 7,81	JAN 6,81	0.06	0.08	0.005	< 0.010	0.030	0.050	0.0457
MAY 6,81	MAY 5,81	0.96	0.16	0.120	0.020	0.020	0.300	0.0501
MAY 11,81	MAY 10,81	0.11	0.14	0.020	0.020	0.050	0.316	0.0724
MAY 12,81	MAY 11,81	0.02	0.03	<T 0.005	<T 0.010	0.010	0.072	0.0316
MAY 13,81	MAY 12,81	*****	0.04	*****	*****	*****	0.004	0.0457
MAY 15,81	MAY 14,81	*****	0.36	*****	*****	*****	0.540	0.1778
MAY 25,81	MAY 24,81	*****	0.76	*****	*****	*****	*****	0.3090

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
MAY 26.81	MAY 25.81	910	915	910	915	1	3.0	1	27014	2	1	80		
MAY 29.81	MAY 28.81	900	900	600	700	1	3.4	1	27015	2	1	98		
MAY 30.81	MAY 29.81	900	900	230	700	1	6.8	1	27017	2	1	95		
JUN 4.81	JUN 3.81	900	1200	900	1200	1	5.7	1	27019	2	1	55	G	
JUN 6.81	JUN 5.81	900	900	2400	700	1	10.0	1	27022	2	1	41	JACF	NY
JUN 9.81	JUN 8.81	900	930	1830	400	1	8.8	1	27023	2	1	103		
JUN 10.81	JUN 9.81	930	915	1420	1445	1	1.4	1	27024	2	1	76		
JUN 13.81	JUN 12.81	900	900	1230	1530	1	1.2	1	27026	2	1	55	C	
JUN 15.81	JUN 14.81	900	900	1830	2100	1	2.4	1	27027	2	1	95		
JUN 16.81	JUN 15.81	900	915	130	200	1	22.7	1	27029	2	1	97	J	
JUN 17.81	JUN 16.81	915	900	1830	2000	1	1.2	1	27031	2	1	65		
JUN 22.81	JUN 21.81	900	900	130	900	1	6.5	1	27032	2	1	98		
JUN 23.81	JUN 22.81	900	900	900	100	1	17.5	1	27034	2	1	97		
JUN 25.81	JUN 24.81	900	900	1200	1530	1	4.6	1	27036	2	1	88		
JUN 30.81	JUN 29.81	900	915	2100	****	1	5.8	1	27038	2	1	93		
JUL 5.81	JUL 4.81	900	930	1250	1315	1	11.2	1	27040	2	1	91		Y
JUL 14.81	JUL 13.81	900	945	1700	2100	1	8.6	1	27043	2	1	100		
JUL 29.81	JUL 28.81	900	900	1230	1800	1	8.8	1	27044	2	1	101		
AUG 5.81	AUG 4.81	900	900	1800	300	1	20.2	1	27046	2	1	105		
AUG 9.81	AUG 7.81	900	900	1800	2000	1	33.0	1	27050	2	1	70		Z
AUG 10.81	AUG 9.81	900	900	1500	1600	1	1.6	1	27051	2	1	66		
AUG 11.81	AUG 10.81	900	900	500	600	1	5.6	1	27054	2	1	98		
AUG 15.81	AUG 14.81	800	800	200	1500	1	17.9	1	27056	2	1	103	D	
AUG 16.81	AUG 15.81	800	800	600	1030	1	2.0	1	27059	2	1	36		M
AUG 17.81	AUG 14.81	800	800	200	1500	1	19.9	1	27058	2	1	94		Z
AUG 24.81	AUG 23.81	900	900	1900	2200	1	3.0	1	27061	2	1	90		
AUG 29.81	AUG 28.81	900	900	2100	700	1	20.0	1	27063	2	1	101	J	
AUG 30.81	AUG 29.81	900	900	1900	2000	1	6.8	1	27065	2	1	94	J	
AUG 31.81	AUG 30.81	900	900	1130	1530	1	7.8	1	27067	2	1	97	AJ	
SEP 1.81	AUG 31.81	900	900	1630	1730	1	4.4	1	27070	2	1	100		
SEP 2.81	SEP 1.81	900	900	2100	230	1	28.8	1	27074	2	1	101		
SEP 3.81	SEP 2.81	900	900	900	2300	1	8.1	1	27076	2	1	84		
SEP 5.81	SEP 4.81	900	900	900	1300	1	12.6	1	27081	2	1	97		
SEP 7.81	SEP 6.81	900	1700	1300	1500	1	6.4	1	27084	2	1	92		
SEP 8.81	SEP 7.81	1700	900	****	****	1	5.2	1	27087	2	1	97		
SEP 9.81	SEP 8.81	900	900	****	****	1	1.4	1	27090	2	1	55		
SEP 10.81	SEP 9.81	900	900	2300	700	1	33.8	1	27091	2	1	104		
SEP 12.81	SEP 11.81	900	900	2300	400	1	12.7	1	27094	2	1	100		
SEP 20.81	SEP 19.81	900	900	1500	2000	1	3.2	1	27097	2	1	87	C	
SEP 27.81	SEP 26.81	900	900	1500	900	1	27.6	1	27098	2	1	103		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08

REMOVAL DATE	EXPOSURE DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB		TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
MAY 26.81	MAY 25.81		155.	*****	*****	4.20		******	4.00	0.75
MAY 29.81	MAY 28.81		215.	*****	*****	4.02		******	5.75	0.58
MAY 30.81	MAY 29.81		418.	34.0	*****	4.27		0.0900	4.00	0.68
JUN 4.81	JUN 3.81		202.	*****	*****	3.80		******	6.75	1.02
JUN 6.81	JUN 5.81	U	267.	68.0	*****	5.76	U	0.1016	13.20	2.00
JUN 9.81	JUN 8.81		584.	46.3	4.02	4.09		0.1190	5.40	0.65
JUN 10.81	JUN 9.81		69.	*****	*****	4.23		******	3.40	0.13
JUN 13.81	JUN 12.81		43.	*****	*****	4.29		******	*****	*****
JUN 15.81	JUN 14.81		147.	*****	*****	4.26		******	3.50	0.60
JUN 16.81	JUN 15.81		1423.	21.3	4.39	4.52		0.0890	2.30	0.25
JUN 17.81	JUN 16.81		50.	*****	*****	4.31		******	2.35	0.49
JUN 22.81	JUN 21.81		411.	20.2	4.18	4.39		0.0710	1.45	0.45
JUN 23.81	JUN 22.81		1096.	10.3	4.50	4.69		0.0490	1.15	0.06
JUN 25.81	JUN 24.81		261.	26.0	*****	4.20	U	0.0092	2.70	0.32
JUN 30.81	JUN 29.81		348.	20.5	*****	4.37		0.0714	1.95	0.32
JUL 5.81	JUL 4.81		657.	61.0	3.91	3.88		0.1720	5.50	0.64
JUL 14.81	JUL 13.81		556.	12.6	4.38	4.76		0.0484	1.50	0.16
JUL 29.81	JUL 28.81		575.	22.6	4.17	4.38		0.0712	1.60	0.23
AUG 5.81	AUG 4.81		1369.	19.2	4.31	4.50		0.0592	2.05	0.20
AUG 9.81	AUG 7.81		1498.	26.5	4.02	4.34		0.0644	2.45	0.35
AUG 10.81	AUG 9.81		68.	*****	*****	4.03		******	2.80	0.71
AUG 11.81	AUG 10.81		354.	22.5	4.09	4.40		0.0742	2.10	0.43
AUG 15.81	AUG 14.81		1186.	22.0	4.10	4.33		0.0838	1.95	0.20
AUG 16.81	AUG 15.81	U	47.	*****	*****	3.93		******	7.00	0.34
AUG 17.81	AUG 14.81		1206.	24.3	4.00	4.32		0.0810	2.30	0.21
AUG 24.81	AUG 23.81		174.	*****	*****	3.96		******	6.05	0.65
AUG 29.81	AUG 28.81		1306.	82.5	3.61	3.77		0.2156	8.65	0.59
AUG 30.81	AUG 29.81		414.	195.8	3.24	3.37		0.5116	19.90	1.57
AUG 31.81	AUG 30.81		487.	112.0	3.49	3.64		0.2278	11.50	0.96
SEP 1.81	AUG 31.81		284.	37.0	*****	4.14		******	3.65	0.31
SEP 2.81	SEP 1.81		1878.	69.5	3.65	3.86		0.1808	6.45	0.66
SEP 3.81	SEP 2.81		440.	72.0	3.65	3.80		0.1876	7.05	0.66
SEP 5.81	SEP 4.81		786.	21.0	4.08	4.29		0.0776	1.55	0.18
SEP 7.81	SEP 6.81		381.	15.2	4.21	4.47		0.0620	1.25	0.13
SEP 8.81	SEP 7.81		326.	26.8	*****	4.28		0.0816	2.85	0.40
SEP 9.81	SEP 8.81		50.	*****	*****	4.26		******	2.35	0.33
SEP 10.81	SEP 9.81		2272.	15.4	4.40	4.86		0.0550	2.10	0.36
SEP 12.81	SEP 11.81		816.	16.0	4.43	4.58		0.0620	2.20	0.40
SEP 20.81	SEP 19.81		180.	*****	*****	4.77		******	3.20	0.55
SEP 27.81	SEP 26.81		1838.	37.5	4.06	4.09		0.1120	3.80	0.40

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
MAY 26.81	MAY 25.81	0.45	0.23	0.075	0.080	0.100	0.690	0.0631
MAY 29.81	MAY 28.81	0.04	0.28	0.035	0.020	0.160	0.830	0.0955
MAY 30.81	MAY 29.81	0.43	0.18	0.075	0.070	0.050	0.730	0.0537
JUN 4.81	JUN 3.81	0.22	0.18	0.035	0.040	0.040	0.550	0.1585
JUN 6.81	JUN 5.81	U 3.15	0.50	U 0.550	0.590	0.100	U 4.600	U 0.0017
JUN 9.81	JUN 8.81	0.41	0.16	0.075	0.030	0.030	0.750	0.0813
JUN 10.81	JUN 9.81	*****	*****	*****	*****	*****	*****	0.0589
JUN 13.81	JUN 12.81	*****	*****	*****	*****	*****	*****	0.0513
JUN 15.81	JUN 14.81	0.24	0.22	0.030	0.040	0.110	0.650	0.0550
JUN 16.81	JUN 15.81	0.19	0.53	0.035	0.080	0.570	0.234	0.0302
JUN 17.81	JUN 16.81	*****	0.26	*****	*****	*****	*****	0.0490
JUN 22.81	JUN 21.81	0.24	0.06	0.015	0.010	0.020	0.160	0.0407
JUN 23.81	JUN 22.81	0.02	0.01	0.005	<T 0.010	0.010	0.112	0.0204
JUN 25.81	JUN 24.81	0.06	0.08	0.015	0.010	0.010	0.232	0.0631
JUN 30.81	JUN 29.81	0.17	0.04	0.045	0.050	0.010	0.230	0.0427
JUL 5.81	JUL 4.81	0.16	0.14	0.035	0.040	0.020	0.220	0.1318
JUL 14.81	JUL 13.81	0.11	0.06	0.020	0.010	0.060	0.246	0.0174
JUL 29.81	JUL 28.81	0.07	0.02	0.010	<T 0.010	<T 0.010	0.012	0.0417
AUG 5.81	AUG 4.81	0.06	0.03	0.010	0.010	0.010	0.268	0.0316
AUG 9.81	AUG 7.81	0.29	0.10	0.015	0.020	0.020	0.184	0.0457
AUG 10.81	AUG 9.81	*****	0.15	*****	*****	*****	*****	0.0933
AUG 11.81	AUG 10.81	0.19	0.09	0.035	0.030	<T 0.010	0.356	0.0398
AUG 15.81	AUG 14.81	0.06	0.08	0.015	0.030	0.030	0.156	0.0468
AUG 16.81	AUG 15.81	*****	0.10	*****	*****	*****	*****	0.1175
AUG 17.81	AUG 14.81	0.03	0.04	0.010	0.010	<T 0.010	0.186	0.0479
AUG 24.81	AUG 23.81	0.28	0.18	0.040	0.020	0.010	0.550	0.1096
AUG 29.81	AUG 28.81	0.11	0.16	0.020	0.020	0.030	0.500	0.1698
AUG 30.81	AUG 29.81	0.38	0.43	0.105	0.040	0.040	0.970	0.4266
AUG 31.81	AUG 30.81	0.13	0.22	0.025	0.040	0.040	0.940	0.2291
SEP 1.81	AUG 31.81	0.04	0.08	0.005	0.010	0.010	0.316	0.0724
SEP 2.81	SEP 1.81	0.08	0.14	0.010	0.010	0.010	0.390	0.1380
SEP 3.81	SEP 2.81	U 0.15	0.08	0.015	0.010	0.020	0.570	0.1585
SEP 5.81	SEP 4.81	0.01	0.02	<T 0.005	<T 0.010	0.010	0.006	0.0513
SEP 7.81	SEP 6.81	0.06	0.02	<T 0.005	0.020	0.020	0.042	0.0339
SEP 8.81	SEP 7.81	0.14	0.04	0.030	0.020	0.010	0.490	0.0525
SEP 9.81	SEP 8.81	*****	0.08	*****	*****	*****	*****	0.0550
SEP 10.81	SEP 9.81	0.34	0.04	0.065	0.030	0.010	0.540	0.0138
SEP 12.81	SEP 11.81	0.36	0.07	0.060	0.030	0.010	0.510	0.0263
SEP 20.81	SEP 19.81	0.58	0.36	0.125	0.240	0.150	0.690	0.0170
SEP 27.81	SEP 26.81	0.16	0.08	0.035	0.020	0.020	0.400	0.0813

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
SEP 28.81	SEP 27.81	900	900	2100	900	1	4.6	1	27101	2	1	87		C
OCT 2.81	OCT 1.81	900	900	1000	900	3	5.8	1	27104	2	1	61		
OCT 5.81	OCT 2.81	800	800	1800	2200	1	6.4	1	27106	2	1	82		Z
OCT 6.81	OCT 5.81	800	800	700	800	1	5.7	1	27109	2	1	103		
OCT 7.81	OCT 6.81	800	800	1300	300	1	10.4	1	27111	2	1	71		
OCT 8.81	OCT 7.81	800	800	800	1200	1	2.4	1	27113	2	1	35		N
OCT 16.81	OCT 15.81	830	830	1700	2100	1	2.8	1	27116	2	1	74		
OCT 18.81	OCT 17.81	900	900	300	900	1	22.4	1	27120	2	1	104		
OCT 19.81	OCT 18.81	900	900	900	300	3	8.4	1	27123	2	1	88	C	
OCT 21.81	OCT 20.81	900	900	1900	2100	1	1.8	1	27125	2	1	48	C	N
OCT 23.81	OCT 22.81	900	900	****	****	2	6.2	2	27128	2	1	78		
OCT 24.81	OCT 23.81	900	900	****	****	3	2.4	2	27131	2	1	113		
NOV 6.81	NOV 5.81	800	800	2000	800	1	1.6	1	27135	2	1	81		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08

REMOVAL DATE	EXPOSURE DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
SEP 28.81	SEP 27.81		257.	7.2	*****	5.30	0.0280	0.95	0.06
OCT 2.81	OCT 1.81		228.	*****	*****	4.04	0.1248	3.80	0.37
OCT 5.81	OCT 2.81		338.	6.6	*****	4.73	******	0.50	0.06
OCT 6.81	OCT 5.81		379.	34.6	4.09	4.11	0.1046	2.15	0.45
OCT 7.81	OCT 6.81		475.	29.5	4.16	4.19	0.0924	2.55	0.30
OCT 8.81	OCT 7.81	U	55.	*****	*****	5.18	******	0.15	0.06
OCT 16.81	OCT 15.81		133.	*****	*****	3.95	******	4.15	0.68
OCT 18.81	OCT 17.81		1506.	19.0	4.35	4.37	0.0738	1.45	0.21
OCT 19.81	OCT 18.81		476.	10.6	4.73	4.73	0.0512	1.30	0.14
OCT 21.81	OCT 20.81	U	56.	*****	*****	5.08	******	5.00	1.18
OCT 23.81	OCT 22.81		310.	5.6	*****	4.95	0.0364	0.15	0.09
OCT 24.81	OCT 23.81		175.	*****	*****	4.55	******	0.95	0.26
NOV 6.81	NOV 5.81		84.	*****	*****	3.96	******	3.60	1.19

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM #08

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
SEP 28,81	SEP 27,81	0.10	0.04	0.035	0.020	0.010	0.192	0.0050
OCT 2,81	OCT 1,81	0.04	0.09	<T 0.005	<T 0.010	0.020	0.158	0.0912
OCT 5,81	OCT 2,81	0.01	<T 0.01	<T 0.005	<T 0.010	<T 0.010	<T 0.002	0.0186
OCT 6,81	OCT 5,81	0.03	0.09	<T 0.005	<T 0.010	<T 0.010	0.204	0.0776
OCT 7,81	OCT 6,81	0.04	0.02	0.005	0.020	0.010	0.140	0.0646
OCT 8,81	OCT 7,81	*****	<T 0.01	*****	*****	*****	*****	0.0066
OCT 16,81	OCT 15,81	0.14	0.03	0.015	<T 0.010	0.020	0.350	0.1122
OCT 18,81	OCT 17,81	0.05	<T 0.01	<T 0.005	0.040	0.020	0.106	0.0427
OCT 19,81	OCT 18,81	0.06	<T 0.01	0.005	0.010	<T 0.010	0.318	0.0186
OCT 21,81	OCT 20,81	*****	0.24	*****	*****	*****	*****	0.0083
OCT 23,81	OCT 22,81	0.04	0.06	0.010	<T 0.010	<T 0.010	0.002	0.0112
OCT 24,81	OCT 23,81	0.11	0.03	0.025	0.090	0.020	0.130	0.0282
NOV 6,81	NOV 5,81	*****	0.18	*****	*****	*****	0.400	0.1096

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/SES #08

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 16.81	JAN 15.81	820	820	****	****	2	3.0	2	407	2	1	90	G	L
JAN 19.81	JAN 16.81	820	830	****	****	2	1.2	2	409	2	1	61		Z
JAN 22.81	JAN 21.81	830	820	****	****	1	0.8	2	411	2	1	104		L
JAN 23.81	JAN 22.81	820	810	****	****	2	1.2	2	413	2	1	86		
JAN 26.81	JAN 23.81	800	800	****	****	3	2.2	2	415	2	1	76		Z
JAN 27.81	JAN 26.81	800	830	1500	****	2	2.2	2	2526	2	1	68		
FEB 2.81	JAN 30.81	830	830	****	****	2	23.2	2	418	2	1	96		Z
FEB 3.81	FEB 2.81	830	815	****	****	2	1.9	2	422	2	1	58		
FEB 4.81	FEB 3.81	815	815	****	****	2	0.6	2	423	2	1	108		M
FEB 5.81	FEB 4.81	815	845	****	****	2	1.2	2	424	2	1	43		N
FEB 9.81	FEB 6.81	830	800	****	****	2	6.6	2	428	2	1	60		LZ
FEB 11.81	FEB 10.81	800	915	1130	****	2	48.2	2	2529	2	1	76		
FEB 12.81	FEB 11.81	915	800	****	****	3	3.2	2	429	2	1	69		
FEB 13.81	FEB 12.81	800	800	1600	****	2	0.2	2	2485	2	1	73	E	
FEB 17.81	FEB 16.81	800	800	****	****	1	2.2	1	432	2	1	87		L
FEB 19.81	FEB 18.81	800	800	****	****	1	0.4	2	2534	2	1	170	E	N
FEB 20.81	FEB 19.81	800	800	****	****	1	0.2	1	2486	2	1	82	E	
FEB 21.81	FEB 20.81	800	800	****	****	1	2.6	2	435	2	1	119		
FEB 22.81	FEB 21.81	800	800	****	****	1	0.7	1	2487	2	1	33	E	N
FEB 23.81	FEB 22.81	800	800	****	****	1	0.8	2	439	2	1	106		L
FEB 24.81	FEB 23.81	800	800	****	****	1	6.0	2	1446	2	1	106		
FEB 25.81	FEB 24.81	800	800	****	****	2	0.2	2	1448	2	1	115		
FEB 28.81	FEB 27.81	800	800	****	****	2	6.9	2	1452	2	1	88		
MAR 1.81	FEB 28.81	800	800	****	****	2	2.2	2	1455	2	1	80		
MAR 2.81	MAR 1.81	800	800	****	****	2	0.8	2	1458	2	1	55		
MAR 3.81	MAR 2.81	800	800	****	****	2	0.5	2	1461	2	1	59		
MAR 4.81	MAR 3.81	800	800	****	****	2	1.1	2	1465	2	1	82		
MAR 5.81	MAR 4.81	800	800	****	****	2	3.4	2	1467	2	1	63		
MAR 7.81	MAR 6.81	900	800	****	****	2	1.9	2	1471	2	1	88		
MAR 8.81	MAR 7.81	800	800	****	****	2	0.2	2	1475	2	1	97		
MAR 10.81	MAR 9.81	800	800	****	****	2	0.2	2	1477	2	1	91		
MAR 11.81	MAR 10.81	800	800	****	****	2	2.1	2	1479	2	1	88		
MAR 12.81	MAR 11.81	800	800	****	1300	2	0.7	2	1482	2	1	66		
MAR 13.81	MAR 12.81	800	800	1030	****	2	2.7	2	1486	2	1	87		
MAR 14.81	MAR 13.81	800	800	****	1600	2	1.6	2	1489	2	1	57		
MAR 16.81	MAR 15.81	800	800	1200	****	2	4.7	2	1492	2	1	78	C	
MAR 17.81	MAR 16.81	800	800	300	****	2	1.6	2	1495	2	1	71		
MAR 20.81	MAR 19.81	800	800	****	1000	2	2.8	2	1501	2	1	85		C
MAR 27.81	MAR 26.81	800	800	1600	2400	1	0.5	2	1503	2	1	161		N
MAR 30.81	MAR 29.81	800	800	2300	****	1	7.2	2	1506	2	1	104	A	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/SES #08

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 16.81	JAN 15.81	443.	62.0	3.76	3.83	******	0.90	1.76
JAN 19.81	JAN 16.81	121.	*****	*****	3.89	******	1.70	1.42
JAN 22.81	JAN 21.81	137.	*****	*****	3.66	******	11.40	2.10
JAN 23.81	JAN 22.81	170.	*****	*****	4.25	******	1.75	0.34
JAN 26.81	JAN 23.81	276.	57.0	*****	3.93	******	4.45	0.60
JAN 27.81	JAN 26.81	247.	33.3	*****	4.68	0.0666	5.75	1.22
FEB 2.81	JAN 30.81	3657.	20.5	4.27	4.35	0.0692	1.15	0.40
FEB 3.81	FEB 2.81	183.	*****	*****	3.90	0.1554	2.10	0.92
FEB 4.81	FEB 3.81	107.	*****	*****	4.18	******	1.10	0.90
FEB 5.81	FEB 4.81	U 85.	*****	*****	4.09	******	1.10	0.90
FEB 9.81	FEB 6.81	650.	54.0	3.95	3.98	0.1396	1.90	1.47
FEB 11.81	FEB 10.81	6074.	15.2	4.39	4.47	0.0578	1.10	0.26
FEB 12.81	FEB 11.81	363.	33.6	3.97	4.12	0.1008	2.05	0.64
FEB 13.81	FEB 12.81	24.	*****	*****	*****	******	*****	*****
FEB 17.81	FEB 16.81	314.	100.0	*****	3.68	0.2636	8.20	1.36
FEB 19.81	FEB 18.81	112.	*****	*****	*****	******	*****	*****
FEB 20.81	FEB 19.81	27.	*****	*****	*****	******	*****	*****
FEB 21.81	FEB 20.81	509.	21.8	4.12	4.32	0.0758	1.60	0.30
FEB 22.81	FEB 21.81	U 39.	*****	*****	*****	******	*****	*****
FEB 23.81	FEB 22.81	140.	*****	*****	4.02	******	5.05	0.94
FEB 24.81	FEB 23.81	1044.	23.3	4.12	4.30	0.0804	1.65	0.36
FEB 25.81	FEB 24.81	38.	*****	*****	*****	******	*****	*****
FEB 28.81	FEB 27.81	1006.	31.6	4.14	4.23	0.0926	2.35	0.73
MAR 1.81	FEB 28.81	292.	126.5	*****	3.59	0.3150	9.25	2.45
MAR 2.81	MAR 1.81	73.	*****	*****	4.10	******	5.40	0.69
MAR 3.81	MAR 2.81	49.	*****	*****	4.42	******	2.80	0.10
MAR 4.81	MAR 3.81	148.	*****	*****	4.43	******	0.30	0.72
MAR 5.81	MAR 4.81	353.	*****	3.91	3.96	0.1418	1.80	1.33
MAR 7.81	MAR 6.81	276.	*****	*****	5.01	******	0.20	0.08
MAR 8.81	MAR 7.81	32.	*****	*****	4.47	******	*****	*****
MAR 10.81	MAR 9.81	30.	*****	*****	3.90	******	*****	*****
MAR 11.81	MAR 10.81	306.	21.6	*****	4.33	0.0734	1.55	0.30
MAR 12.81	MAR 11.81	76.	*****	*****	4.36	******	2.15	0.26
MAR 13.81	MAR 12.81	386.	23.0	U 5.89	U 6.33	0.0344	3.30	0.95
MAR 14.81	MAR 13.81	151.	*****	*****	4.37	******	2.00	0.14
MAR 16.81	MAR 15.81	608.	18.5	4.59	4.92	0.0508	2.40	0.63
MAR 17.81	MAR 16.81	188.	*****	*****	5.16	0.0334	0.50	0.25
MAR 20.81	MAR 19.81	394.	U 8.8	4.39	4.79	0.0410	0.40	0.08
MAR 27.81	MAR 26.81	132.	*****	*****	3.70	******	6.70	2.60
MAR 30.81	MAR 29.81	1235.	49.2	3.96	4.13	0.1206	6.15	0.81

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/SES #08

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 16.81	JAN 15.81	0.03	0.28	< 0.005	< 0.010	0.030	0.064	0.1479
JAN 19.81	JAN 16.81	0.10	0.30	0.015	0.010	0.160	0.108	0.1288
JAN 22.81	JAN 21.81	0.25	0.44	0.055	0.070	0.250	2.150	0.2188
JAN 23.81	JAN 22.81	0.02	0.13	< 0.005	0.010	0.060	0.136	0.0562
JAN 26.81	JAN 23.81	0.16	0.26	0.015	0.010	0.130	0.106	0.1175
JAN 27.81	JAN 26.81	1.20	0.27	0.230	0.170	0.080	1.740	0.0209
FEB 2.81	JAN 30.81	0.02	0.03	0.005	< 0.010	0.030	0.110	0.0447
FEB 3.81	FEB 2.81	0.02	0.15	0.015	0.010	0.040	0.470	0.1259
FEB 4.81	FEB 3.81	0.11	0.38	0.015	< 0.010	0.090	0.044	0.0661
FEB 5.81	FEB 4.81	0.14	0.36	0.020	< 0.010	0.110	*****	0.0813
FEB 9.81	FEB 6.81	0.37	0.52	0.050	0.040	0.150	0.360	0.1047
FEB 11.81	FEB 10.81	0.03	0.12	<T 0.005	<T 0.010	0.020	0.098	0.0339
FEB 12.81	FEB 11.81	0.07	0.19	0.005	0.020	0.040	0.150	0.0759
FEB 13.81	FEB 12.81	*****	*****	*****	*****	*****	*****	******
FEB 17.81	FEB 16.81	0.30	1.33	0.110	0.050	0.760	0.500	0.2089
FEB 19.81	FEB 18.81	*****	*****	*****	*****	*****	*****	******
FEB 20.81	FEB 19.81	*****	*****	*****	*****	*****	*****	******
FEB 21.81	FEB 20.81	0.02	0.15	<T 0.005	0.040	0.060	0.088	0.0479
FEB 22.81	FEB 21.81	*****	*****	*****	*****	*****	*****	******
FEB 23.81	FEB 22.81	0.44	2.10	0.270	0.090	1.650	0.550	0.0955
FEB 24.81	FEB 23.81	0.03	0.15	0.010	0.010	0.080	0.094	0.0501
FEB 25.81	FEB 24.81	*****	*****	*****	*****	*****	*****	******
FEB 28.81	FEB 27.81	0.25	0.16	0.020	0.020	0.090	0.370	0.0589
MAR 1.81	FEB 28.81	0.15	0.38	0.015	0.050	0.090	1.270	0.2570
MAR 2.81	MAR 1.81	*****	0.26	*****	*****	*****	0.910	0.0794
MAR 3.81	MAR 2.81	*****	0.21	*****	*****	*****	*****	0.0380
MAR 4.81	MAR 3.81	0.32	0.17	0.030	<T 0.010	0.070	0.004	0.0372
MAR 5.81	MAR 4.81	0.09	0.43	0.010	0.020	0.060	0.410	0.1096
MAR 7.81	MAR 6.81	<T 0.01	0.08	<T 0.005	<T 0.010	0.040	0.002	0.0098
MAR 8.81	MAR 7.81	*****	*****	*****	*****	*****	*****	0.0339
MAR 10.81	MAR 9.81	*****	*****	*****	*****	*****	*****	0.1259
MAR 11.81	MAR 10.81	0.09	0.07	0.020	0.010	0.030	0.066	0.0468
MAR 12.81	MAR 11.81	*****	0.14	*****	*****	*****	*****	0.0437
MAR 13.81	MAR 12.81	1.58	0.31	U 0.335	0.050	0.130	0.970	U 0.0005
MAR 14.81	MAR 13.81	0.11	0.16	0.030	<T 0.010	0.100	0.066	0.0427
MAR 16.81	MAR 15.81	0.58	0.13	*****	0.040	0.070	0.740	0.0120
MAR 17.81	MAR 16.81	0.19	0.09	0.045	0.010	0.050	0.168	0.0069
MAR 20.81	MAR 19.81	0.02	0.06	0.005	<T 0.010	0.020	<T 0.002	0.0162
MAR 27.81	MAR 26.81	1.16	0.41	0.070	0.010	0.120	0.890	0.1995
MAR 30.81	MAR 29.81	0.70	0.38	0.120	0.040	0.250	0.900	0.0741

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/SES #08 PAGE : 4

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
MAR 31.81	MAR 30.81	800	800	****	2200	1	13.0	2	1509	2	1	102	C	
APR 2.81	APR 1.81	800	800	930	1200	1	5.3	2	1514	2	1	106		
APR 4.81	APR 3.81	800	800	2230	****	1	13.8	2	1518	2	1	100		
APR 5.81	APR 4.81	800	800	****	1700	1	1.3	2	1521	2	1	53	C	
APR 6.81	APR 5.81	800	800	1600	200	2	0.6	2	1524	2	1	125		N
APR 9.81	APR 8.81	800	800	2000	****	1	13.4	2	1528	2	1	100	C	
APR 10.81	APR 9.81	800	800	****	1030	1	1.0	1	1531	2	1	68		
APR 11.81	APR 10.81	800	800	100	600	1	2.8	1	1536	2	1	113	C	
APR 14.81	APR 13.81	800	800	****	****	1	8.8	1	2325	2	1	105		
APR 15.81	APR 14.81	800	800	800	1300	1	7.2	1	2040	2	1	90		
APR 17.81	APR 16.81	800	800	500	800	1	2.1	1	2041	2	1	94	C	
APR 18.81	APR 17.81	800	800	800	100	1	6.2	1	2044	2	1	93		
APR 20.81	APR 19.81	800	800	1700	800	3	2.0	2	2048	2	1	100		
APR 24.81	APR 23.81	800	800	800	800	1	7.2	1	2052	2	1	98		
APR 25.81	APR 24.81	800	800	800	700	1	4.6	1	2054	2	1	83		
APR 29.81	APR 28.81	900	900	2000	530	1	7.2	1	2057	2	1	98	C	
OCT 26.81	OCT 24.81	900	800	****	****	1	2.4	2	27134	2	1	106		Z
NOV 7.81	NOV 6.81	800	800	800	2400	3	5.2	2	27140	2	1	104		
NOV 17.81	NOV 16.81	800	830	1700	830	1	10.8	1	27142	2	1	158		N
NOV 18.81	NOV 17.81	830	830	830	800	1	2.2	1	27147	2	1	88		
NOV 20.81	NOV 19.81	830	830	****	****	2	5.8	2	27151	2	1	96		
NOV 24.81	NOV 20.81	830	830	****	****	2	11.8	2	27153	2	1	75	C	Z
NOV 27.81	NOV 26.81	830	830	1800	830	1	16.2	2	27157	2	1	102		
NOV 28.81	NOV 27.81	830	830	830	200	1	3.8	1	27161	2	1	17	G	NM
DEC 2.81	DEC 1.81	830	830	1200	600	3	2.4	2	27166	2	1	129	C	N
DEC 4.81	DEC 2.81	830	830	****	****	3	1.8	2	27170	2	1	144		ZN
DEC 8.81	DEC 7.81	830	830	2000	830	2	3.8	2	27173	2	1	90		
DEC 9.81	DEC 8.81	830	830	830	830	2	****	*	27176	2	1	****	E	
DEC 10.81	DEC 9.81	830	830	830	830	2	1.5	2	27177	2	1	54		M
DEC 11.81	DEC 10.81	830	830	830	2400	2	****	*	27178	2	1	****	Q	
DEC 14.81	DEC 11.81	830	830	****	****	2	1.3	2	27179	2	1	105		Z
DEC 15.81	DEC 14.81	830	830	830	830	2	4.7	2	27180	2	1	96		
DEC 17.81	DEC 16.81	830	830	830	830	2	0.2	2	27184	2	1	45	E	N
DEC 18.81	DEC 17.81	830	830	****	****	2	****	2	27185	2	1	****	E	
DEC 21.81	DEC 18.81	830	830	1200	1600	2	0.4	2	27186	2	1	91		Z
DEC 22.81	DEC 21.81	830	830	830	1800	2	5.2	2	27187	2	1	70		C
DEC 23.81	DEC 22.81	830	900	100	830	2	5.2	2	27193	2	1	95		
DEC 25.81	DEC 24.81	830	900	1600	900	2	8.0	2	27195	2	1	82	C	
DEC 27.81	DEC 25.81	900	900	900	1300	2	2.2	2	27198	2	1	77		Z
DEC 28.81	DEC 27.81	900	900	****	****	2	5.0	2	27201	2	1	54		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/SES #08 PAGE : 5

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
MAR 31.81	MAR 30.81	2190.	25.8	4.21	4.29	0.0796	2.74	0.30
APR 2.81	APR 1.81	921.	21.2	4.46	4.74	0.0528	3.45	0.50
APR 4.81	APR 3.81	2276.	21.8	4.25	4.46	0.0674	3.20	0.37
APR 5.81	APR 4.81	114.	*****	*****	U 6.92	******	U 11.50	1.64
APR 6.81	APR 5.81	123.	*****	*****	4.20	******	4.20	0.11
APR 9.81	APR 8.81	2214.	27.8	4.38	4.82	0.0552	5.05	0.96
APR 10.81	APR 9.81	112.	*****	*****	4.12	******	4.10	0.33
APR 11.81	APR 10.81	522.	60.0	3.94	4.18	0.1252	8.15	2.10
APR 14.81	APR 13.81	1524.	28.8	4.13	4.22	0.0896	2.55	0.44
APR 15.81	APR 14.81	1069.	18.6	4.21	4.42	0.0650	1.60	0.16
APR 17.81	APR 16.81	325.	33.1	*****	U 7.08	0.0326	4.20	0.99
APR 18.81	APR 17.81	948.	72.5	3.77	3.90	0.1776	6.80	1.61
APR 20.81	APR 19.81	331.	21.3	*****	4.50	0.0656	2.85	0.27
APR 24.81	APR 23.81	1157.	44.5	3.79	4.02	0.1288	3.65	0.52
APR 25.81	APR 24.81	633.	18.5	3.99	4.42	0.0772	1.25	0.19
APR 29.81	APR 28.81	1168.	32.8	4.04	4.19	0.0960	3.55	0.32
OCT 26.81	OCT 24.81	419.	21.4	4.31	4.40	0.0674	1.60	0.48
NOV 7.81	NOV 6.81	894.	20.0	4.30	4.37	0.0700	1.55	0.21
NOV 17.81	NOV 16.81	2808.	15.2	4.40	4.59	0.0572	1.25	0.14
NOV 18.81	NOV 17.81	320.	35.3	*****	4.13	0.1078	3.45	0.25
NOV 20.81	NOV 19.81	920.	8.3	4.77	4.73	0.0534	0.90	0.11
NOV 24.81	NOV 20.81	1455.	17.6	4.38	4.36	0.0886	1.15	0.30
NOV 27.81	NOV 26.81	2715.	31.9	4.16	4.13	0.1152	2.60	0.44
NOV 28.81	NOV 27.81	U 110.	*****	*****	4.86	******	0.45	0.08
DEC 2.81	DEC 1.81	510.	58.0	3.80	3.91	0.1712	3.65	1.14
DEC 4.81	DEC 2.81	425.	43.7	4.03	4.05	0.1438	3.75	0.94
DEC 8.81	DEC 7.81	565.	58.0	3.92	3.93	0.1684	3.35	1.56
DEC 9.81	DEC 8.81	*****	*****	*****	*****	******	*****	*****
DEC 10.81	DEC 9.81	135.	*****	*****	5.37	******	<T 0.05	<T 0.01
DEC 11.81	DEC 10.81	120.	*****	*****	5.02	******	0.20	0.06
DEC 14.81	DEC 11.81	225.	74.0	*****	3.92	******	5.55	1.80
DEC 15.81	DEC 14.81	740.	43.0	4.03	4.00	0.1232	1.55	1.11
DEC 17.81	DEC 16.81	U 15.	*****	*****	*****	******	*****	*****
DEC 18.81	DEC 17.81	15.	*****	*****	*****	******	*****	*****
DEC 21.81	DEC 18.81	60.	*****	*****	4.53	******	1.15	0.53
DEC 22.81	DEC 21.81	605.	10.4	4.49	4.58	0.0626	0.50	0.29
DEC 23.81	DEC 22.81	815.	14.6	4.36	4.44	0.0742	0.50	0.43
DEC 25.81	DEC 24.81	1080.	19.4	4.26	4.38	0.0804	0.95	0.60
DEC 27.81	DEC 25.81	280.	30.7	*****	4.16	0.1080	0.90	0.93
DEC 28.81	DEC 27.81	445.	12.1	4.44	4.54	0.0666	0.30	0.20

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/SES #08

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
MAR 31.81	MAR 30.81	0.14	0.01	0.005	<T 0.010	0.020	0.382	0.0513
APR 2.81	APR 1.81	1.00	0.14	0.155	0.050	0.110	0.440	0.0182
APR 4.81	APR 3.81	0.56	0.20	0.070	0.050	0.080	0.349	0.0347
APR 5.81	APR 4.81	*****	0.76	*****	*****	*****	1.670	U 0.0001
APR 6.81	APR 5.81	*****	0.11	*****	*****	*****	0.180	0.0631
APR 9.81	APR 8.81	1.35	0.33	0.285	0.070	0.200	0.940	0.0151
APR 10.81	APR 9.81	0.32	0.06	0.055	0.050	0.050	0.126	0.0759
APR 11.81	APR 10.81	2.00	0.39	0.355	0.110	0.310	1.580	0.0661
APR 14.81	APR 13.81	0.10	0.15	0.010	<T 0.010	0.080	0.290	0.0603
APR 15.81	APR 14.81	<T 0.01	0.03	<T 0.005	<T 0.010	0.020	0.084	0.0380
APR 17.81	APR 16.81	U 3.70	0.10	U 0.725	0.090	0.060	0.640	U 0.0001
APR 18.81	APR 17.81	0.54	0.20	0.075	0.040	0.100	1.380	0.1259
APR 20.81	APR 19.81	0.23	0.08	0.030	0.020	0.050	0.490	0.0316
APR 24.81	APR 23.81	0.12	0.09	<T 0.005	<T 0.010	0.020	0.182	0.0955
APR 25.81	APR 24.81	0.01	0.05	<T 0.005	0.040	0.090	0.034	0.0380
APR 29.81	APR 28.81	0.18	0.04	0.010	<T 0.010	0.030	0.336	0.0646
OCT 26.81	OCT 24.81	0.17	0.04	0.035	<T 0.010	0.020	0.214	0.0398
NOV 7.81	NOV 6.81	0.03	0.02	<T 0.005	<T 0.010	0.010	0.066	0.0427
NOV 17.81	NOV 16.81	0.10	0.27	0.015	<T 0.010	0.180	0.074	0.0257
NOV 18.81	NOV 17.81	0.05	0.10	<T 0.005	0.020	0.100	0.228	0.0741
NOV 20.81	NOV 19.81	0.10	<T 0.01	<T 0.005	0.020	<T 0.010	0.078	0.0186
NOV 24.81	NOV 20.81	0.01	0.02	<T 0.005	<T 0.010	0.010	0.122	0.0437
NOV 27.81	NOV 26.81	0.17	0.06	0.020	0.030	0.050	0.214	0.0741
NOV 28.81	NOV 27.81	0.05	<T 0.01	0.005	0.010	0.010	0.094	0.0138
DEC 2.81	DEC 1.81	0.36	0.15	0.025	0.030	0.030	0.430	0.1230
DEC 4.81	DEC 2.81	0.19	0.10	0.005	0.010	0.020	0.790	0.0891
DEC 8.81	DEC 7.81	0.19	0.29	<T 0.005	0.020	0.030	0.850	0.1175
DEC 9.81	DEC 8.81	*****	*****	*****	*****	*****	*****	******
DEC 10.81	DEC 9.81	0.03	0.03	<T 0.005	<T 0.010	0.020	0.004	0.0043
DEC 11.81	DEC 10.81	0.04	0.08	<T 0.005	<T 0.010	0.020	0.018	0.0095
DEC 14.81	DEC 11.81	0.61	0.32	0.145	0.090	0.130	0.940	0.1202
DEC 15.81	DEC 14.81	0.07	0.12	0.015	0.010	0.020	0.300	0.1000
DEC 17.81	DEC 16.81	*****	*****	*****	*****	*****	*****	******
DEC 18.81	DEC 17.81	*****	*****	*****	*****	*****	*****	******
DEC 21.81	DEC 18.81	*****	*****	*****	*****	*****	<T 0.002	0.0295
DEC 22.81	DEC 21.81	0.24	0.25	0.030	0.010	0.030	0.046	0.0263
DEC 23.81	DEC 22.81	0.02	0.13	<T 0.005	0.020	0.010	*****	0.0363
DEC 25.81	DEC 24.81	0.09	0.06	0.025	0.060	0.050	*****	0.0417
DEC 27.81	DEC 25.81	0.10	0.15	0.020	0.050	0.050	*****	0.0692
DEC 28.81	DEC 27.81	0.01	0.21	<T 0.005	0.020	0.010	*****	0.0288
			0.26					

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/SES #08

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
DEC 29.81	DEC 28.81	900	830	1300	1600	2	1.4	2	27204	2	1	82		
DEC 30.81	DEC 29.81	830	830	830	830	2	****	2	27207	2	1	****		
DEC 31.81	DEC 30.81	830	830	830	1300	2	0.6	2	27208	2	1	55		
JAN 1.82	DEC 31.81	830	900	9	19	2	22.5	2	27210	2	1	5	G	N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/SES #08 PAGE : 8

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 UG/L	SULPHATE MG/L	NITRATE AS N MG/L
DEC 29.81	DEC 28.81	190.	29.2	*****	4.23	******	0.75	0.74
DEC 30.81	DEC 29.81	25.	*****	*****	3.83	******	*****	*****
DEC 31.81	DEC 30.81	55.	*****	*****	3.98	******	2.05	1.58
JAN 1.82	DEC 31.81	U 195.	5.5	*****	U 4.89	******	0.20	<T 0.01

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/SES #08

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
DEC 29.81	DEC 28.81	0.04	0.22	<T 0.005	0.040	0.030	*****	0.0589
DEC 30.81	DEC 29.81	*****	*****	*****	*****	*****	*****	0.1479
DEC 31.81	DEC 30.81	*****	0.68	*****	*****	*****	*****	0.1047
JAN 1.82	DEC 31.81	0.02	0.10	<T 0.005	0.010	<T 0.010	*****	U 0.0129

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITMAN CREEK/DAILY/AEROCHEM #09

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
OCT 25.80	OCT 24.80	800	800	700	800	1	****	*	113	2	1	****		
OCT 26.80	OCT 25.80	800	830	800	700	1	****	*	114	2	1	****	H	H
OCT 27.80	OCT 26.80	830	800	800	800	3	1.1	1	115	2	1	96		
NOV 4.80	NOV 3.80	800	800	300	800	1	3.0	1	116	2	1	90		L
NOV 5.80	NOV 4.80	800	800	800	400	1	2.4	1	117	2	1	98		L
NOV 7.80	NOV 6.80	800	800	800	800	3	3.4	1	118	2	1	113	B	L
NOV 8.80	NOV 7.80	800	800	800	800	3	12.4	1	119	2	1	50		
NOV 9.80	NOV 8.80	800	800	800	800	3	7.4	1	120	2	1	72		
NOV 14.80	NOV 13.80	800	800	1230	800	1	7.4	1	121	2	1	103		
MAY 6.81	MAY 5.81	800	800	****	****	1	4.0	1	22004	2	1	82		
MAY 11.81	MAY 10.81	800	800	200	800	1	22.0	1	22005	2	1	102		
MAY 12.81	MAY 11.81	800	800	****	****	1	****	*	22006	2	1	****	H	
MAY 22.81	MAY 21.81	800	800	1600	1630	1	4.0	1	22007	2	1	82	C	
MAY 28.81	MAY 27.81	800	****	1700	800	1	47.1	1	22008	2	1	101	AC	
MAY 29.81	MAY 28.81	800	800	800	1401	1	****	*	22009	2	1	****	AC	
MAY 30.81	MAY 29.81	800	800	1300	600	1	8.0	1	22010	2	1	96		
JUN 4.81	JUN 3.81	800	800	900	1600	1	10.0	1	22011	2	1	****	EFK	
JUN 9.81	JUN 8.81	800	800	1900	200	1	5.9	1	22012	2	1	93	AC	
JUN 14.81	JUN 13.81	800	800	400	800	1	1.0	1	22013	2	1	67	C	
JUN 15.81	JUN 14.81	800	800	2300	800	1	0.4	1	22014	2	1	159	C	N
JUN 16.81	JUN 15.81	800	800	1800	2200	1	****	*	22015	2	1	****	AC	
JUN 17.81	JUN 16.81	800	800	2100	100	1	1.0	1	22016	2	1	31		N
JUN 22.81	JUN 21.81	800	800	300	800	1	15.0	1	22017	2	1	86	A	
JUN 23.81	JUN 22.81	800	800	800	200	1	33.0	1	22018	2	1	80	GHE	
JUN 26.81	JUN 25.81	800	800	900	1400	1	7.0	1	22019	2	1	92	AD	
JUL 1.81	JUN 30.81	800	800	200	630	1	14.0	1	22020	2	1	103		
JUL 3.81	JUL 2.81	800	800	1645	1800	1	6.1	1	22021	2	1	98	A	X
JUL 5.81	JUL 4.81	800	800	1130	1300	1	8.2	1	22022	2	1	102	E	X
JUL 13.81	JUL 12.81	800	800	****	600	1	1.4	1	22023	2	1	55		
JUL 14.81	JUL 13.81	800	900	1600	1630	1	8.2	1	22024	2	1	101	AC	
JUL 18.81	JUL 17.81	800	800	2330	500	1	15.0	1	22025	2	1	88	AC	
JUL 21.81	JUL 20.81	800	800	800	1900	1	14.0	1	22026	2	1	93	A	
JUL 29.81	JUL 28.81	800	800	1130	730	1	24.0	1	22027	2	1	27	AC	N
AUG 5.81	AUG 4.81	800	800	1600	1900	1	44.0	1	22028	2	1	99	AB	
AUG 8.81	AUG 7.81	800	800	****	****	1	****	*	22029	2	1	****		
AUG 9.81	AUG 8.81	800	800	****	****	1	****	*	22030	2	1	****		
AUG 11.81	AUG 10.81	800	800	****	****	1	****	*	22031	2	1	****		
AUG 11.81	AUG 10.81	800	800	1500	1700	1	12.0	1	22032	2	1	54	C	
AUG 15.81	AUG 14.81	800	800	300	700	1	25.0	1	22033	2	1	****	KFE	
AUG 16.81	AUG 15.81	800	800	800	1900	1	35.0	1	22034	2	1	104	AC	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITMAN CREEK/DAILY/AEROCHEM #09

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
OCT 25,80	OCT 24,80	56.	*****	*****	4.01	0.1138	*****	*****
OCT 26,80	OCT 25,80	U 451.	3.9	5.10	5.09	0.0454	0.20	0.05
OCT 27,80	OCT 26,80	68.	*****	*****	5.38	******	*****	*****
NOV 4,80	NOV 3,80	174.	*****	*****	3.91	0.1478	3.70	0.85
NOV 5,80	NOV 4,80	152.	*****	*****	4.43	0.0664	1.85	0.52
NOV 7,80	NOV 6,80	247.	28.0	*****	4.25	0.0886	1.85	0.80
NOV 8,80	NOV 7,80	400.	47.3	4.11	4.05	0.1316	3.35	1.47
NOV 9,80	NOV 8,80	345.	24.1	*****	4.29	0.0876	2.15	0.37
NOV 14,80	NOV 13,80	491.	43.6	4.05	4.02	0.1316	3.25	1.05
MAY 6,81	MAY 5,81	212.	*****	*****	3.99	******	4.90	0.70
MAY 11,81	MAY 10,81	1450.	35.5	4.14	4.15	0.1066	3.40	0.51
MAY 12,81	MAY 11,81	418.	26.6	4.46	4.31	******	2.75	0.42
MAY 22,81	MAY 21,81	211.	*****	*****	U 6.34	******	8.25	1.29
MAY 28,81	MAY 27,81	3064.	31.0	U 4.12	U 4.23	0.0944	U 3.40	U 0.31
MAY 29,81	MAY 28,81	365.	31.5	4.12	4.26	0.0924	3.40	0.47
MAY 30,81	MAY 29,81	497.	43.2	4.00	4.08	0.1236	4.65	0.58
JUN 4,81	JUN 3,81	*****	*****	*****	*****	******	*****	*****
JUN 9,81	JUN 8,81	354.	72.0	3.83	3.89	0.1730	7.85	1.45
JUN 14,81	JUN 13,81	43.	*****	*****	3.96	******	9.20	0.79
JUN 15,81	JUN 14,81	41.	*****	*****	3.62	******	U 14.50	U 1.31
JUN 16,81	JUN 15,81	428.	40.3	4.04	4.06	0.1126	3.20	0.66
JUN 17,81	JUN 16,81	U 20.	*****	*****	4.13	******	*****	*****
JUN 22,81	JUN 21,81	831.	U 18.5	4.24	U 4.37	0.0690	1.60	0.20
JUN 23,81	JUN 22,81	1703.	*****	*****	*****	******	*****	*****
JUN 26,81	JUN 25,81	416.	26.4	4.23	4.52	0.0730	3.70	0.53
JUL 1,81	JUN 30,81	930.	49.4	4.01	3.96	0.1454	4.85	0.54
JUL 3,81	JUL 2,81	387.	*****	U 4.83	3.78	******	8.20	1.05
JUL 5,81	JUL 4,81	537.	*****	3.64	*****	******	*****	*****
JUL 13,81	JUL 12,81	50.	*****	*****	4.76	******	2.70	0.66
JUL 14,81	JUL 13,81	536.	9.0	5.03	5.57	0.0314	1.50	0.22
JUL 18,81	JUL 17,81	849.	25.9	4.06	4.40	0.0722	2.60	0.40
JUL 21,81	JUL 20,81	843.	28.6	4.00	4.31	0.0804	3.55	0.18
JUL 29,81	JUL 28,81	U 426.	29.0	3.79	U 4.18	0.0912	U 2.90	0.31
AUG 5,81	AUG 4,81	2796.	*****	3.80	4.05	0.1210	6.00	0.49
AUG 8,81	AUG 7,81	301.	46.4	*****	4.04	******	4.05	0.42
AUG 9,81	AUG 8,81	109.	*****	*****	3.92	******	6.20	0.60
AUG 11,81	AUG 10,81	297.	77.5	*****	3.80	0.1996	6.00	1.22
AUG 11,81	AUG 10,81	422.	19.7	*****	U 4.35	0.0732	1.75	0.16
AUG 15,81	AUG 14,81	*****	*****	*****	*****	******	*****	*****
AUG 16,81	AUG 15,81	2336.	44.4	*****	4.05	0.1304	4.15	0.38

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITMAN CREEK/DAILY/AEROCHEM #09

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
OCT 25,80	OCT 24,80	*****	*****	*****	*****	*****	*****	0.0977
OCT 26,80	OCT 25,80	0.04	< 0.01	0.010	0.030	0.020	0.016	0.0081
OCT 27,80	OCT 26,80	*****	*****	*****	*****	*****	0.268	0.0042
NOV 4,80	NOV 3,80	0.19	0.15	0.200	0.060	0.300	0.300	0.1230
NOV 5,80	NOV 4,80	0.19	0.05	0.020	0.020	0.025	0.470	0.0372
NOV 7,80	NOV 6,80	0.25	0.10	0.030	0.030	0.025	0.440	0.0562
NOV 8,80	NOV 7,80	0.72	0.23	0.080	0.040	0.020	0.860	0.0891
NOV 9,80	NOV 8,80	0.19	0.14	0.015	0.030	0.060	0.274	0.0513
NOV 14,80	NOV 13,80	0.38	0.20	0.030	0.030	0.040	0.420	0.0955
MAY 6,81	MAY 5,81	0.30	0.17	0.030	0.050	0.050	0.318	0.1023
MAY 11,81	MAY 10,81	0.18	0.13	0.030	0.060	0.090	0.318	0.0708
MAY 12,81	MAY 11,81	0.28	0.16	U 0.050	0.040	0.080	0.260	0.0490
MAY 22,81	MAY 21,81	U 3.80	0.30	U 0.360	0.120	0.090	1.160	U 0.0005
MAY 28,81	MAY 27,81	0.06	0.13	0.010	0.020	0.040	0.400	U 0.0589
MAY 29,81	MAY 28,81	0.28	0.33	0.050	0.020	0.200	0.380	0.0550
MAY 30,81	MAY 29,81	0.21	0.16	0.025	0.010	0.010	0.580	0.0832
JUN 4,81	JUN 3,81	*****	*****	*****	*****	*****	*****	******
JUN 9,81	JUN 8,81	0.66	0.28	0.135	0.080	0.080	1.520	0.1288
JUN 14,81	JUN 13,81	*****	0.25	*****	*****	*****	*****	0.1096
JUN 15,81	JUN 14,81	*****	0.42	*****	*****	*****	*****	0.2399
JUN 16,81	JUN 15,81	0.28	0.27	0.055	0.300	0.130	0.288	0.0871
JUN 17,81	JUN 16,81	*****	*****	*****	*****	*****	*****	0.0741
JUN 22,81	JUN 21,81	0.07	0.05	0.005	0.010	0.020	U 0.104	U 0.0427
JUN 23,81	JUN 22,81	*****	*****	*****	*****	*****	*****	******
JUN 26,81	JUN 25,81	U 0.63	0.15	0.055	0.050	0.060	0.710	0.0302
JUL 1,81	JUN 30,81	0.14	0.11	0.025	0.030	0.020	0.450	0.1096
JUL 3,81	JUL 2,81	*****	0.68	*****	*****	*****	0.830	0.1660
JUL 5,81	JUL 4,81	*****	*****	*****	*****	*****	*****	******
JUL 13,81	JUL 12,81	*****	0.29	*****	*****	*****	*****	0.0174
JUL 14,81	JUL 13,81	0.58	0.09	0.060	0.040	0.010	0.210	0.0027
JUL 18,81	JUL 17,81	0.38	0.11	0.060	0.020	0.020	0.232	0.0398
JUL 21,81	JUL 20,81	0.34	0.15	0.035	0.020	0.080	0.182	0.0490
JUL 29,81	JUL 28,81	0.11	0.15	U 0.015	U 0.320	0.090	0.180	U 0.0661
AUG 5,81	AUG 4,81	0.69	0.30	0.080	0.030	0.150	0.500	0.0891
AUG 8,81	AUG 7,81	0.14	U 0.31	0.020	0.040	U 0.250	0.012	0.0912
AUG 9,81	AUG 8,81	0.21	0.14	0.030	0.050	0.070	0.540	0.1202
AUG 11,81	AUG 10,81	0.36	0.25	0.060	0.040	0.030	0.390	0.1585
AUG 11,81	AUG 10,81	0.02	0.04	0.005	<T 0.010	0.030	0.110	U 0.0447
AUG 15,81	AUG 14,81	*****	*****	*****	*****	*****	*****	******
AUG 16,81	AUG 15,81	0.04	0.06	0.010	0.010	0.030	0.350	0.0891

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITMAN CREEK/DAILY/AEROCHEM #09

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
AUG 29.81	AUG 28.81	800	800	****	400	1	1.0	1	22036	2	1	98	C	
AUG 31.81	AUG 30.81	800	800	2000	300	1	4.8	1	22035	2	1	115		M
SEP 2.81	SEP 1.81	800	800	1600	800	1	17.0	1	22037	2	1	105		
SEP 3.81	SEP 2.81	800	800	800	800	1	4.0	1	22038	2	1	76	AJ	
SEP 5.81	SEP 4.81	800	800	800	800	1	51.0	1	22039	2	1	108	ACJ	
SEP 6.81	SEP 5.81	800	800	800	1230	1	1.2	1	22040	2	1	39	ACJ	N
SEP 7.81	SEP 6.81	800	800	500	800	1	1.0	1	22041	2	1	56	ACJ	L
SEP 8.81	SEP 7.81	800	800	2100	100	1	41.0	1	22042	2	1	88	ABCJ	
SEP 9.81	SEP 8.81	800	800	1530	1800	1	38.0	1	22043	2	1	104	AJ	
SEP 11.81	SEP 10.81	800	800	810	2000	1	13.0	1	22044	2	1	160		NJ
SEP 18.81	SEP 17.81	800	800	930	1500	1	7.0	1	22045	2	1	83		J
SEP 20.81	SEP 19.81	800	800	1800	2330	1	2.6	1	22046	2	1	52		
SEP 22.81	SEP 21.81	800	800	1900	500	1	6.2	1	22047	2	1	80		
SEP 23.81	SEP 22.81	800	800	1030	1230	1	2.5	1	22048	2	1	110		
SEP 27.81	SEP 26.81	800	800	330	500	1	23.0	1	22049	2	1	90		
OCT 2.81	OCT 1.81	800	800	1300	1930	1	3.6	1	22050	2	1	54		
OCT 5.81	OCT 4.81	800	800	800	2100	1	3.2	1	22051	2	1	64		
OCT 7.81	OCT 6.81	800	800	930	800	1	16.8	1	22052	2	1	85		
OCT 18.81	OCT 17.81	800	800	200	800	1	12.2	1	22053	2	1	92		
OCT 19.81	OCT 18.81	800	800	1230	300	1	4.0	1	22054	2	1	59		
OCT 22.81	OCT 21.81	800	800	1100	600	3	6.2	1	22055	2	1	130		N
OCT 23.81	OCT 22.81	800	800	900	800	1	12.2	1	22056	2	1	91		
OCT 26.81	OCT 25.81	800	800	600	1500	1	3.8	1	22057	2	1	84	C	
OCT 27.81	OCT 26.81	800	800	800	800	1	11.0	1	22058	2	1	87	C	
OCT 28.81	OCT 27.81	800	800	800	2300	1	29.4	1	22059	2	1	101	C	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITMAN CREEK/DAILY/AEROCHEM #09

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
AUG 29.81	AUG 28.81	63.	*****	*****		3.78	******	9.80	U 1.83
AUG 31.81	AUG 30.81	354.	27.4	4.32		4.28	0.0814	2.20	0.31
SEP 2.81	SEP 1.81	1148.	47.0	3.54		3.96	0.1316	4.65	0.49
SEP 3.81	SEP 2.81	196.	*****	*****		3.80	******	6.55	0.82
SEP 5.81	SEP 4.81	3537.	33.1	3.44		4.15	0.1024	2.95	0.37
SEP 6.81	SEP 5.81	U 30.	*****	*****	U	3.05	******	U 10.00	U 2.00
SEP 7.81	SEP 6.81	36.	*****	*****	U	6.99	******	U 11.50	U 1.35
SEP 8.81	SEP 7.81	2332.	43.8	3.36		4.07	0.1182	5.55	0.50
SEP 9.81	SEP 8.81	2537.	32.9	3.47		4.17	0.1004	U 3.55	0.19
SEP 11.81	SEP 10.81	1340.	15.5	3.40		5.23	0.0396	2.80	0.36
SEP 18.81	SEP 17.81	376.	15.6	3.14		4.50	0.0560	1.35	0.15
SEP 20.81	SEP 19.81	88.	*****	*****		4.79	******	*****	*****
SEP 22.81	SEP 21.81	318.	9.0	*****		4.80	******	0.60	0.20
SEP 23.81	SEP 22.81	177.	*****	*****		4.77	******	0.50	0.10
SEP 27.81	SEP 26.81	1335.	54.0	4.17		3.95	0.1440	5.55	0.59
OCT 2.81	OCT 1.81	125.	*****	*****		4.04	******	4.65	0.54
OCT 5.81	OCT 4.81	133.	*****	*****		4.55	******	1.50	0.10
OCT 7.81	OCT 6.81	926.	37.2	4.34		4.12	0.1182	3.15	0.59
OCT 18.81	OCT 17.81	720.	19.5	4.45		4.43	0.0668	1.80	0.20
OCT 19.81	OCT 18.81	153.	*****	*****		4.22	******	4.65	0.54
OCT 22.81	OCT 21.81	520.	40.9	4.17		4.15	0.1076	U 3.35	U 0.91
OCT 23.81	OCT 22.81	719.	62.0	3.94		3.90	0.1640	4.20	1.30
OCT 26.81	OCT 25.81	206.	*****	*****		4.59	0.0554	1.60	0.30
OCT 27.81	OCT 26.81	616.	11.2	4.65		4.61	0.0596	*****	*****
OCT 28.81	OCT 27.81	1919.	10.7	4.60		4.88	0.0516	1.05	0.12

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITMAN CREEK/DAILY/AEROCHEM #09

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
AUG 29.81	AUG 28.81	*****	0.39	*****	*****	*****	*****	0.1660
AUG 31.81	AUG 30.81	0.07	0.08	0.010	<T 0.010	0.020	0.078	0.0525
SEP 2.81	SEP 1.81	0.05	0.14	0.010	0.060	0.030	0.370	0.1096
SEP 3.81	SEP 2.81	0.10	0.20	0.025	0.040	0.120	0.580	0.1585
SEP 5.81	SEP 4.81	0.01	0.11	0.005	0.020	0.030	0.294	0.0708
SEP 6.81	SEP 5.81	*****	U 0.96	*****	*****	*****	*****	U 0.8913
SEP 7.81	SEP 6.81	*****	U 1.74	*****	*****	*****	*****	U 0.0001
SEP 8.81	SEP 7.81	0.51	0.28	0.200	0.030	0.080	0.340	0.0851
SEP 9.81	SEP 8.81	0.02	0.07	0.005	0.010	0.010	0.234	0.0676
SEP 11.81	SEP 10.81	0.58	U 0.28	0.100	0.040	0.020	0.700	0.0059
SEP 18.81	SEP 17.81	0.11	0.08	0.010	0.010	0.010	0.102	0.0316
SEP 20.81	SEP 19.81	*****	*****	*****	*****	*****	*****	0.0162
SEP 22.81	SEP 21.81	0.12	0.10	0.005	0.030	0.020	0.088	0.0158
SEP 23.81	SEP 22.81	*****	<T 0.01	*****	*****	*****	0.034	0.0170
SEP 27.81	SEP 26.81	0.30	0.10	0.035	0.010	0.040	0.490	0.1122
OCT 2.81	OCT 1.81	0.12	0.13	0.015	0.060	0.080	0.490	0.0912
OCT 5.81	OCT 4.81	0.14	0.04	0.015	0.010	0.030	0.094	0.0282
OCT 7.81	OCT 6.81	0.05	0.07	<T 0.005	<T 0.010	0.020	0.490	0.0759
OCT 18.81	OCT 17.81	0.13	0.08	0.020	0.010	0.020	0.142	0.0372
OCT 19.81	OCT 18.81	0.63	0.20	U 0.105	0.040	0.060	U 0.530	0.0603
OCT 22.81	OCT 21.81	0.38	0.18	0.045	0.040	0.030	0.460	0.0708
OCT 23.81	OCT 22.81	0.31	0.16	0.030	0.030	0.030	0.394	0.1259
OCT 26.81	OCT 25.81	0.17	0.08	0.015	0.010	0.020	0.272	0.0257
OCT 27.81	OCT 26.81	0.04	*****	<T 0.005	<T 0.010	0.020	0.038	0.0245
OCT 28.81	OCT 27.81	U 0.14	U 0.35	0.025	U 0.200	U 0.530	<T 0.002	0.0132

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITMAN CREEK/DAILY/SES #09

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
NOV 25.80	NOV 24.80	800	800	800	800	3	****	*	122	2	1	****		J
NOV 27.80	NOV 26.80	800	800	800	800	3	****	*	123	2	1	****		L
NOV 29.80	NOV 28.80	800	800	800	800	3	****	*	124	2	1	****		
DEC 2.80	DEC 1.80	800	800	800	800	3	****	*	125	2	1	****	A	L
DEC 3.80	DEC 2.80	800	800	800	800	3	****	*	126	2	1	****	C	CM
DEC 9.80	DEC 8.80	800	800	800	1600	3	****	*	127	2	1	****		C
DEC 10.80	DEC 9.80	800	800	1900	800	2	****	*	128	2	1	****		
DEC 13.80	DEC 12.80	800	800	900	2300	2	****	*	129	2	1	****	C	
DEC 26.80	DEC 25.80	800	800	900	1900	2	****	*	130	2	1	****	C	L
JAN 7.81	JAN 6.81	800	800	800	800	2	****	*	131	2	1	****	C	LL
FEB 2.81	FEB 1.81	800	800	900	800	3	****	*	132	2	1	****		L
FEB 3.81	FEB 2.81	800	800	800	2100	2	****	*	133	2	1	****	G	
FEB 5.81	FEB 4.81	800	800	800	800	2	****	*	246R	2	1	****	E	
FEB 7.81	FEB 6.81	800	800	1100	800	2	****	*	134	2	1	****		L
FEB 9.81	FEB 8.81	800	800	2400	400	2	****	*	135	2	1	****		LL
FEB 11.81	FEB 10.81	800	800	1500	800	3	****	*	136	2	1	****		
FEB 12.81	FEB 11.81	800	800	1500	800	3	****	*	137	2	1	****		L
FEB 17.81	FEB 16.81	800	800	1300	2200	1	****	*	138	2	1	****		LX
FEB 20.81	FEB 19.81	800	800	730	800	1	****	*	2450	2	1	****	G	XM
FEB 21.81	FEB 20.81	800	800	800	800	1	****	*	1969	2	1	****		
FEB 24.81	FEB 23.81	800	800	800	****	1	25.0	1	1806	2	1	110		
FEB 26.81	FEB 25.81	800	800	800	800	3	****	*	1807	2	1	****		
MAR 1.81	FEB 28.81	800	800	800	800	3	1.3	1	1808	2	1	118		
MAR 2.81	MAR 1.81	800	800	800	****	2	****	*	1809	2	1	****		
MAR 5.81	MAR 4.81	800	800	800	800	3	1.3	1	1810	2	1	110		C
MAR 9.81	MAR 8.81	800	800	2130	800	3	****	*	1811	2	1	****		
MAR 11.81	MAR 10.81	800	800	****	800	2	****	*	1812	2	1	****		
MAR 13.81	MAR 12.81	800	800	800	800	2	****	*	1813	2	1	****		
MAR 14.81	MAR 13.81	800	800	800	2300	2	****	*	1814	2	1	****		
MAR 17.81	MAR 16.81	800	800	****	800	2	****	*	1815	2	1	****		
MAR 18.81	MAR 17.81	800	800	800	1800	2	****	*	1816	2	1	****		
MAR 20.81	MAR 19.81	800	800	****	****	2	****	*	1817	2	1	****		
MAR 21.81	MAR 20.81	800	800	1700	****	2	****	*	1818	2	1	****		
MAR 27.81	MAR 26.81	800	800	2200	800	1	2.3	1	1819	2	1	62		
MAR 30.81	MAR 29.81	800	800	****	800	1	1.3	1	1820	2	1	77	A	M
MAR 31.81	MAR 30.81	800	800	800	****	1	12.3	1	1821	2	1	98		
APR 4.81	APR 3.81	800	800	800	800	1	8.4	1	212R	2	1	90	A	
APR 5.81	APR 4.81	800	800	****	****	1	6.4	1	2129	2	1	29		CN
APR 6.81	APR 5.81	800	800	800	800	1	6.4	1	2130	2	1	9	A	N
APR 9.81	APR 8.81	800	800	****	800	1	2.2	1	2131	2	1	91	AD	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITMAN CREEK/DAILY/SES #09

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
NOV 25.80	NOV 24.80	612.	40.2	U 4.73	4.03	0.1226	2.50	0.94
NOV 27.80	NOV 26.80	152.	*****	*****	4.45	******	0.40	0.43
NOV 29.80	NOV 28.80	608.	23.9	4.68	4.26	0.0870	1.70	0.44
DEC 2.80	DEC 1.80	190.	*****	*****	3.70	******	4.50	2.52
DEC 3.80	DEC 2.80	1895.	26.5	4.37	4.11	0.0896	1.75	0.44
DEC 9.80	DEC 8.80	780.	34.0	4.29	4.02	0.1082	2.75	0.48
DEC 10.80	DEC 9.80	237.	*****	*****	5.66	******	0.25	0.10
DEC 13.80	DEC 12.80	449.	30.6	4.19	4.12	0.1146	2.00	0.76
DEC 26.80	DEC 25.80	274.	43.5	*****	4.07	******	2.05	1.28
JAN 7.81	JAN 6.81	361.	37.4	4.26	4.19	******	1.55	1.16
FEB 2.81	FEB 1.81	1218.	31.6	3.84	4.33	0.0878	2.25	0.83
FEB 3.81	FEB 2.81	396.	17.8	4.27	4.52	0.0636	0.75	0.43
FEB 5.81	FEB 4.81	25.	*****	*****	*****	******	*****	*****
FEB 7.81	FEB 6.81	115.	*****	*****	4.03	******	2.85	1.83
FEB 9.81	FEB 8.81	108.	*****	*****	4.51	******	2.45	1.57
FEB 11.81	FEB 10.81	5320.	18.4	4.34	4.40	0.0684	1.30	0.32
FEB 12.81	FEB 11.81	1441.	25.0	4.24	4.29	0.0792	2.30	0.34
FEB 17.81	FEB 16.81	582.	46.6	4.32	4.32	0.0910	4.80	1.32
FEB 20.81	FEB 19.81	2079.	*****	4.21	*****	******	*****	*****
FEB 21.81	FEB 20.81	2809.	9.4	4.51	4.64	0.0460	U 1.20	0.21
FEB 24.81	FEB 23.81	4534.	15.3	3.75	4.68	0.0488	1.20	0.21
FEB 26.81	FEB 25.81	81.	*****	*****	4.17	******	4.80	0.44
FEB 28.81	FEB 28.81	252.	111.0	*****	3.79	******	11.80	2.90
MAR 1.81	MAR 1.81	57.	*****	*****	3.98	******	17.20	3.40
MAR 5.81	MAR 4.81	235.	10.6	*****	6.58	0.0244	0.90	0.40
MAR 9.81	MAR 8.81	67.	*****	*****	4.78	******	7.30	0.32
MAR 11.81	MAR 10.81	99.	*****	*****	5.00	******	2.55	0.36
MAR 13.81	MAR 12.81	51.	*****	*****	4.38	******	U 4.90	0.37
MAR 14.81	MAR 13.81	136.	*****	*****	U 6.36	******	6.40	1.67
MAR 17.81	MAR 16.81	170.	*****	*****	U 7.48	******	5.65	1.86
MAR 18.81	MAR 17.81	384.	24.6	4.33	4.33	0.0754	0.90	0.78
MAR 20.81	MAR 19.81	369.	7.2	4.89	5.00	0.0354	0.35	U 0.14
MAR 21.81	MAR 20.81	74.	*****	*****	4.34	******	3.15	0.88
MAR 27.81	MAR 26.81	235.	156.0	*****	3.70	0.2870	10.10	5.60
MAR 30.81	MAR 29.81	165.	*****	*****	U 5.44	******	U 30.00	U 5.20
MAR 31.81	MAR 30.81	1996.	24.8	4.23	4.25	0.0922	3.45	0.34
APR 4.81	APR 3.81	1245.	68.0	3.93	4.36	0.1130	12.50	1.56
APR 5.81	APR 4.81	U 311.	9.3	*****	U 6.16	U 0.0310	U 0.40	0.30
APR 6.81	APR 5.81	U 96.	*****	*****	4.75	******	2.85	0.18
APR 9.81	APR 8.81	330.	70.0	*****	U 7.07	0.0532	U 11.80	1.26

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITMAN CREEK/DAILY/SES #09 PAGE : 3

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
NOV 25.80	NOV 24.80	0.34	U 0.79	0.040	0.020	U 0.500	0.380	0.0933
NOV 27.80	NOV 26.80	0.09	0.03	0.015	0.010	0.030	0.074	0.0355
NOV 29.80	NOV 28.80	0.19	0.16	0.035	0.020	0.110	0.192	0.0550
DEC 2.80	DEC 1.80	0.86	0.84	0.125	0.130	0.500	0.098	0.1995
DEC 3.80	DEC 2.80	0.05	0.04	0.100	0.020	0.040	0.204	0.0776
DEC 9.80	DEC 8.80	0.08	0.28	0.010	0.020	0.150	0.282	0.0955
DEC 10.80	DEC 9.80	0.21	0.11	0.035	0.010	0.090	0.014	0.0022
DEC 13.80	DEC 12.80	0.19	0.40	0.020	0.030	0.020	0.410	0.0759
DEC 26.80	DEC 25.80	0.52	0.88	0.090	0.040	0.430	0.344	0.0951
JAN 7.81	JAN 6.81	0.60	U 1.18	0.055	0.020	0.820	0.146	0.0646
FEB 2.81	FEB 1.81	0.80	0.40	0.070	0.030	0.180	0.227	0.0468
FEB 3.81	FEB 2.81	0.08	0.17	U 0.150	0.010	0.060	0.120	0.0302
FEB 5.81	FEB 4.81	*****	*****	*****	*****	*****	*****	******
FEB 7.81	FEB 6.81	U 1.32	U 4.18	U 0.130	0.080	*****	0.304	0.0933
FEB 9.81	FEB 8.81	U 1.82	U 2.45	0.210	0.090	*****	0.400	0.0309
FEB 11.81	FEB 10.81	0.07	0.33	0.010	0.010	0.130	0.080	0.0398
FEB 12.81	FEB 11.81	0.10	0.39	0.020	0.110	0.240	0.118	0.0513
FEB 17.81	FEB 16.81	1.38	U 2.60	0.205	0.070	U 2.500	0.540	0.0479
FEB 20.81	FEB 19.81	*****	*****	*****	*****	*****	*****	******
FEB 21.81	FEB 20.81	0.01	0.06	<T 0.005	0.010	0.030	0.044	0.0229
FEB 24.81	FEB 23.81	0.18	1.15	0.110	0.030	0.700	0.104	0.0209
FEB 26.81	FEB 25.81	*****	0.15	*****	*****	*****	0.460	0.0676
MAR 1.81	FEB 28.81	2.25	0.56	0.225	0.120	0.220	2.400	0.1622
MAR 2.81	MAR 1.81	*****	1.21	*****	*****	*****	*****	0.1047
MAR 5.81	MAR 4.81	0.96	0.27	0.165	0.010	0.190	0.144	0.0003
MAR 9.81	MAR 8.81	*****	0.72	*****	*****	*****	U 1.510	0.0166
MAR 11.81	MAR 10.81	*****	0.15	*****	*****	*****	0.530	0.0100
MAR 13.81	MAR 12.81	*****	0.30	*****	*****	*****	0.750	0.0417
MAR 14.81	MAR 13.81	U 2.65	U 1.26	U 0.510	0.130	0.560	1.370	U 0.0004
MAR 17.81	MAR 16.81	U 7.80	U 2.40	U 0.440	0.550	U 1.500	1.220	U 0.0000
MAR 18.81	MAR 17.81	0.35	0.31	0.045	0.010	0.100	0.258	0.0468
MAR 20.81	MAR 19.81	0.12	0.20	0.010	<T 0.010	0.100	0.086	0.0100
MAR 21.81	MAR 20.81	*****	2.20	*****	*****	*****	0.380	0.0457
MAR 27.81	MAR 26.81	4.60	U 4.30	0.695	0.410	U 2.400	1.750	0.1995
MAR 30.81	MAR 29.81	U 12.00	U 3.00	U 1.400	U 2.000	U 2.200	0.840	U 0.0036
MAR 31.81	MAR 30.81	0.14	0.13	0.015	0.040	0.110	0.400	0.0562
APR 4.81	APR 3.81	3.30	0.83	0.445	0.330	0.440	U 1.940	0.0437
APR 5.81	APR 4.81	0.64	0.32	U 0.040	0.120	0.280	U 0.074	U 0.0007
APR 6.81	APR 5.81	*****	0.09	*****	*****	*****	U 0.318	0.0178
APR 9.81	APR 8.81	U 5.70	U 1.45	U 1.000	0.560	U 1.010	1.980	U 0.0001

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITMAN CREEK/DAILY/SES #09

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
APR 11.81	APR 10.81	800	800	800	****	1	6.1	1	2132	2	1	87	A	
APR 15.81	APR 14.81	800	800	800	1500	1	13.1	1	2133	2	1	78	B	
APR 18.81	APR 17.81	800	800	800	****	1	14.6	1	2134	2	1	98		J
APR 20.81	APR 19.81	800	800	2130	****	1	1.3	1	2135	2	1	76	A	M
APR 24.81	APR 23.81	800	800	800	800	1	****	*	22001	2	1	****	AD	
APR 25.81	APR 24.81	800	800	800	800	1	12.3	1	22002	2	1	17	AD	N
APR 28.81	APR 27.81	900	800	800	2300	1	3.4	1	22003	2	1	125	ABC	N
NOV 7.81	NOV 6.81	800	800	2200	500	2	****	*	22060	2	1	****		
NOV 16.81	NOV 15.81	800	800	300	600	1	****	*	22061	2	1	****	AC	
NOV 17.81	NOV 16.81	800	800	200	800	1	****	*	22062	2	1	****		
NOV 19.81	NOV 18.81	800	800	600	800	1	****	*	22063	2	1	****		N
NOV 20.81	NOV 19.81	800	800	100	730	1	****	*	22064	2	1	****		
NOV 21.81	NOV 20.81	800	800	****	****	3	****	*	22065	2	1	****		
NOV 27.81	NOV 26.81	800	800	1130	100	1	****	*	22066	2	1	****		
DEC 2.81	DEC 1.81	800	800	1100	300	1	****	*	22067	2	1	****		
DEC 3.81	DEC 2.81	800	800	900	1300	1	****	*	22068	2	1	****		
DEC 8.81	DEC 7.81	800	800	1600	800	4	****	*	22069	2	1	****		
DEC 9.81	DEC 8.81	800	800	900	1500	2	****	*	22070	2	1	****		
DEC 15.81	DEC 14.81	800	800	100	1900	2	****	*	22071	2	1	****		
DEC 22.81	DEC 21.81	800	800	110	1900	2	****	*	22072	2	1	****		
DEC 23.81	DEC 22.81	800	800	900	1730	3	****	*	22073	2	1	****		
DEC 29.81	DEC 28.81	800	800	1300	200	2	****	*	22074	2	1	****		
JAN 1.82	DEC 31.81	800	800	800	1100	3	****	*	22075	2	1	****		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITMAN CREEK/DAILY/SES #09

REMOVAL DATE	EXPOSURE DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD		PH LAB		TOTAL H+ TO PH8.3 UG/L		SULPHATE MG/L		NITRATE AS N UG/L
APR 11.81	APR 10.81		879.	34.5	3.62		4.29		0.0884		4.50		0.87
APR 15.81	APR 14.81		1694.	20.2	3.75		4.51		0.0600		2.75		0.29
APR 18.81	APR 17.81		2352.	23.5	3.53	U	4.72		0.0522		3.40		0.76
APR 20.81	APR 19.81		162.	*****	*****		7.18	U	******		3.00		0.28
APR 24.81	APR 23.81		1955.	39.9	4.04		4.08		0.1132		3.60		0.70
APR 25.81	APR 24.81	U	351.	44.9	4.02		4.03		0.1352		2.55		1.00
APR 28.81	APR 27.81		699.	39.2	4.34		4.41		0.0900		5.40		1.04
NOV 7.81	NOV 6.81		1063.	16.4	4.59		4.67		0.0504		1.55		0.36
NOV 16.81	NOV 15.81		285.	67.0	*****		4.15		0.1204		6.50		2.60
NOV 17.81	NOV 16.81		791.	30.3	4.19		4.24		0.0886		2.05		0.61
NOV 19.81	NOV 18.81		656.	36.6	3.28		4.14		0.1022		3.00		0.70
NOV 20.81	NOV 19.81		223.	72.2	*****		3.87		0.1850		5.30		1.45
NOV 21.81	NOV 20.81		850.	59.9	3.16		3.93		0.1546		3.95		1.30
NOV 27.81	NOV 26.81		190.	*****	*****		6.65		******	U	1.20	U	0.23
DEC 2.81	DEC 1.81		164.	*****	*****		4.02		******		8.40		1.79
DEC 3.81	DEC 2.81		20.	*****	*****		3.73		******		*****		*****
DEC 8.81	DEC 7.81		934.	32.5	4.42		4.32		0.0964		2.25		1.27
DEC 9.81	DEC 8.81		65.	*****	*****		3.98		******		4.30		0.88
DEC 15.81	DEC 14.81		130.	94.0	*****		3.72		******		8.75		1.89
DEC 22.81	DEC 21.81		398.	40.5	4.20		4.27		0.1218		2.35		1.17
DEC 23.81	DEC 22.81		443.	35.0	4.37		4.40		0.1110	U	2.90	U	1.12
DEC 29.81	DEC 28.81		423.	19.5	4.40		4.45		0.0768		1.10		0.50
JAN 1.82	DEC 31.81		376.	15.2	4.56		4.57		0.0726		1.25		0.30

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITMAN CREEK/DAILY/SES #09

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
APR 11.81	APR 10.81	1.04	0.27	0.165	0.130	0.190	0.560	0.0513
APR 15.81	APR 14.81	0.45	0.14	0.075	0.030	0.090	0.294	0.0309
APR 18.81	APR 17.81	0.91	0.12	0.135	0.050	0.060	0.790	0.0191
APR 20.81	APR 19.81	U 2.10	0.18	0.260	0.190	0.160	0.630	U 0.0001
APR 24.81	APR 23.81	0.23	0.11	0.035	0.090	0.040	0.420	0.0832
APR 25.81	APR 24.81	0.09	0.17	0.005	0.020	0.060	0.348	0.0933
APR 28.81	APR 27.81	0.86	0.29	0.115	U 0.400	0.160	1.540	0.0389
NOV 7.81	NOV 6.81	0.07	U 0.16	U 0.030	U 0.580	U 0.180	U 0.230	0.0214
NOV 16.81	NOV 15.81	3.10	0.39	0.360	0.170	0.120	1.400	0.0708
NOV 17.81	NOV 16.81	0.24	0.34	0.045	0.020	0.180	0.264	0.0575
NOV 19.81	NOV 18.81	0.21	0.10	0.010	0.020	0.040	0.470	0.0724
NOV 20.81	NOV 19.81	0.30	0.39	0.005	0.260	0.190	0.820	0.1349
NOV 21.81	NOV 20.81	0.27	0.18	0.030	0.080	0.080	0.690	0.1175
NOV 27.81	NOV 26.81	1.34	0.14	0.100	0.080	0.070	U 0.214	0.0002
DEC 2.81	DEC 1.81	1.83	0.49	0.185	0.120	0.220	1.320	0.0955
DEC 3.81	DEC 2.81	*****	*****	*****	*****	*****	*****	0.1862
DEC 8.81	DEC 7.81	0.99	0.22	0.090	0.050	0.050	0.550	0.0479
DEC 9.81	DEC 8.81	*****	0.14	*****	*****	*****	0.390	0.1047
DEC 15.81	DEC 14.81	0.54	0.91	0.040	0.060	0.380	1.070	0.1905
DEC 22.81	DEC 21.81	0.97	U 1.28	0.075	0.040	U 0.860	0.360	0.0537
DEC 23.81	DEC 22.81	U 0.82	U 0.52	U 0.120	0.070	U 0.350	0.740	0.0398
DEC 29.81	DEC 28.81	0.16	U 0.56	0.010	0.020	0.380	0.186	0.0355
JAN 1.82	DEC 31.81	0.26	0.17	U 0.040	0.070	0.090	0.150	0.0269

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM #10 PAGE : 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JUL 15.80	JUL 14.80	800	810	400	730	1	0.8	1	493	2	1	85		
JUL 16.80	JUL 15.80	810	810	2330	200	1	0.2	1	494	2	1	187		N
JUL 21.80	JUL 20.80	810	755	1000	300	1	19.0	1	495	2	1	107		
JUL 22.80	JUL 21.80	755	750	100	230	1	6.4	1	496	2	1	84		CL
JUL 23.80	JUL 22.80	750	800	900	1300	1	2.0	1	497	2	1	90		
JUL 24.80	JUL 23.80	800	750	1330	1430	1	7.4	1	498	2	1	99		CH
JUL 27.80	JUL 26.80	750	855	****	****	1	3.4	1	1	2	1	102	A	
JUL 28.80	JUL 27.80	855	720	130	230	1	5.2	1	2	2	1	103		C
JUL 29.80	JUL 28.80	720	745	1900	745	1	66.2	1	3	2	1	104		
JUL 30.80	JUL 29.80	745	****	****	****	1	7.0	1	4	2	1	98	AF	M
AUG 3.80	AUG 2.80	805	820	2045	200	1	3.7	1	5	2	1	90		L
AUG 6.80	AUG 5.80	820	810	****	****	1	1.0	1	6	2	1	82		
AUG 12.80	AUG 6.80	810	755	****	****	1	34.8	1	7	2	1	23		ZNJ
AUG 13.80	AUG 12.80	755	700	****	****	1	6.8	1	8	2	1	109		
AUG 15.80	AUG 14.80	700	745	1000	1400	1	17.2	1	9	2	1	97		J
AUG 20.80	AUG 19.80	745	802	30	1600	1	1.6	1	10	2	1	64	G	
AUG 28.80	AUG 27.80	802	802	****	****	1	9.8	1	11	2	1	99		
SEP 1.80	AUG 31.80	800	830	2300	500	1	22.2	1	12	2	1	103		
SEP 3.80	SEP 2.80	830	800	1300	1530	1	25.0	1	13	2	1	110		J
SEP 10.80	SEP 9.80	800	750	1630	1830	1	14.5	1	14	2	1	98		L
SEP 14.80	SEP 13.80	750	915	2000	2000	1	8.7	1	15	2	1	113		
SEP 15.80	SEP 14.80	915	800	1000	1230	1	9.4	1	16	2	1	97		
SEP 18.80	SEP 15.80	800	810	****	****	1	1.2	1	2456	2	1	57		ZX
SEP 22.80	SEP 21.80	810	800	2000	2130	1	6.2	1	17	2	1	117		
SEP 23.80	SEP 22.80	800	800	2000	2200	1	8.2	1	18	2	1	103		
SEP 26.80	SEP 26.80	400	530	400	530	1	14.0	1	2457	2	1	104		Z
OCT 3.80	OCT 2.80	800	****	800	1800	1	3.0	1	19	2	1	93		
OCT 5.80	OCT 4.80	830	910	830	1645	1	17.4	1	20	2	1	100		
OCT 7.80	OCT 6.80	830	950	1900	2400	1	2.8	1	21	2	1	71		
OCT 11.80	OCT 10.80	800	830	300	800	1	8.7	1	22	2	1	36		ML
OCT 18.80	OCT 17.80	830	1110	****	****	1	4.0	1	23	2	1	62		
OCT 20.80	OCT 19.80	1110	800	****	****	1	0.4	1	24	2	1	7		N
OCT 25.80	OCT 24.80	800	915	****	****	1	2.1	1	25	2	1	60		
OCT 26.80	OCT 25.80	915	830	****	****	1	55.0	1	26	2	1	106	B	
OCT 27.80	OCT 26.80	830	805	2000	****	3	1.2	1	27	2	1	97		
NOV 4.80	NOV 3.80	815	815	400	700	1	2.2	1	28	2	1	98		L
NOV 8.80	NOV 7.80	800	750	****	****	1	8.0	1	29	2	1	78		L
NOV 9.80	NOV 8.80	800	1100	****	****	3	23.1	1	30	2	1	100		L
NOV 14.80	NOV 13.80	800	750	****	****	1	8.0	1	31	2	1	92		L
NOV 18.80	NOV 17.80	800	800	****	****	2	****	*	32	2	1	****		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM #10

REMOVAL DATE	EXPOSURE DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JUL 15,80	JUL 14,80		44.	*****	*****		3.86		******	> 10.00	> 2.00
JUL 16,80	JUL 15,80		24.	*****	*****		3.97		******	*****	*****
JUL 21,80	JUL 20,80		1315.	34.3	4.05		4.17		0.0974	3.00	0.55
JUL 22,80	JUL 21,80		346.	52.0	*****		3.91		0.2012	6.30	0.91
JUL 23,80	JUL 22,80		116.	*****	*****		4.34		******	1.50	0.52
JUL 24,80	JUL 23,80		472.	4.7	4.82		4.86		0.0456	0.45	0.05
JUL 27,80	JUL 26,80		224.	*****	*****		3.93		******	4.95	0.84
JUL 28,80	JUL 27,80		345.	18.3	*****		3.40		0.5414	20.80	1.52
JUL 29,80	JUL 28,80		4453.	25.1	4.24		4.30		0.0734	2.35	0.26
JUL 30,80	JUL 29,80		444.	22.3	4.33		4.34		0.0698	2.35	0.37
AUG 3,80	AUG 2,80		215.	69.0	*****		3.97		0.1606	8.30	1.47
AUG 6,80	AUG 5,80		53.	*****	*****		3.84		******	*****	*****
AUG 12,80	AUG 6,80	U	516.	11.9	3.98	U	5.42		0.0308	2.20	0.27
AUG 13,80	AUG 12,80		477.	26.6	4.42		4.34		0.0738	3.00	0.30
AUG 15,80	AUG 14,80		1071.	62.5	5.01	U	3.88		0.1710	6.65	0.89
AUG 20,80	AUG 19,80		66.	*****	*****		3.81		******	*****	*****
AUG 28,80	AUG 27,80		622.	73.0	3.62		3.86		0.1760	8.45	0.70
SEP 1,80	AUG 31,80		1472.	31.9	3.92		4.18		0.0884	2.85	0.34
SEP 3,80	SEP 2,80		1771.	14.5	4.17		4.52		0.0500	1.25	0.14
SEP 10,80	SEP 9,80		913.	50.5	4.03		4.02		0.1268	5.50	0.77
SEP 14,80	SEP 13,80		632.	49.8	4.01		3.99		0.1514	4.55	0.64
SEP 15,80	SEP 14,80		588.	59.0	3.95		3.92		0.1520	6.20	0.74
SEP 18,80	SEP 15,80		44.	*****	*****		*****		******	*****	*****
SEP 22,80	SEP 21,80		466.	49.5	3.85		3.97		0.1548	5.45	0.60
SEP 23,80	SEP 22,80		542.	43.4	4.15		4.04		0.1498	4.25	0.59
SEP 26,80	SEP 26,80		934.	48.6	4.12		3.99		0.1522	3.10	1.04
OCT 3,80	OCT 2,80		180.	*****	*****		3.73		0.2070	8.00	1.08
OCT 5,80	OCT 4,80		1121.	22.5	4.35		4.24		0.0856	1.40	0.48
OCT 7,80	OCT 6,80		128.	*****	*****		3.77		0.1800	4.95	1.28
OCT 11,80	OCT 10,80	U	202.	*****	*****		3.52		0.3328	11.80	3.00
OCT 18,80	OCT 17,80		159.	76.0	*****		3.72		0.2066	7.20	0.99
OCT 20,80	OCT 19,80	U	2.	*****	*****		*****		******	*****	*****
OCT 25,80	OCT 24,80		81.	*****	*****		4.15		0.1058	*****	*****
OCT 26,80	OCT 25,80		3750.	3.2	5.10		5.21		0.0380	0.30	0.05
OCT 27,80	OCT 26,80		75.	*****	*****		4.71		******	*****	*****
NOV 4,80	NOV 3,80		139.	*****	*****		3.88		******	4.15	0.99
NOV 8,80	NOV 7,80		404.	34.6	4.33		4.19		0.1022	2.65	1.05
NOV 9,80	NOV 8,80		1485.	44.8	4.20		4.12		0.1198	4.10	1.35
NOV 14,80	NOV 13,80		473.	40.4	4.15		4.05		0.1314	3.20	0.86
NOV 18,80	NOV 17,80		27.	*****	*****		6.74		******	*****	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM #10 PAGE : 3

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JUL 15.80	JUL 14.80	*****	> 1.50	*****	*****	*****	*****	0.1380
JUL 16.80	JUL 15.80	*****	*****	*****	*****	*****	*****	0.1072
JUL 21.80	JUL 20.80	0.26	0.10	0.030	0.020	0.060	0.230	0.0676
JUL 22.80	JUL 21.80	0.54	0.71	0.080	0.150	0.040	1.060	0.1230
JUL 23.80	JUL 22.80	*****	0.21	*****	*****	*****	0.146	0.0457
JUL 24.80	JUL 23.80	0.11	0.07	0.005	0.020	0.020	0.092	0.0138
JUL 27.80	JUL 26.80	0.52	0.30	0.050	0.090	0.110	0.326	0.1175
JUL 28.80	JUL 27.80	0.30	0.54	0.040	0.080	0.080	1.340	0.3981
JUL 29.80	JUL 28.80	0.07	0.30	0.025	0.020	0.180	0.172	0.0501
JUL 30.80	JUL 29.80	0.10	0.07	0.005	0.020	0.030	0.110	0.0457
AUG 3.80	AUG 2.80	1.44	0.50	0.195	0.330	0.150	1.260	0.1072
AUG 6.80	AUG 5.80	*****	*****	*****	*****	*****	*****	0.1445
AUG 12.80	AUG 6.80	0.88	0.06	0.090	0.210	0.070	0.162	U 0.0038
AUG 13.80	AUG 12.80	0.32	0.30	0.025	0.040	0.060	0.336	0.0457
AUG 15.80	AUG 14.80	0.28	0.21	0.035	0.030	0.040	0.800	0.1318
AUG 20.80	AUG 19.80	*****	*****	*****	*****	*****	*****	0.1549
AUG 28.80	AUG 27.80	0.66	0.15	0.090	0.040	0.050	0.930	0.1380
SEP 1.80	AUG 31.80	0.07	0.11	0.005	0.020	0.030	0.304	0.0661
SEP 3.80	SEP 2.80	0.05	0.04	< 0.005	< 0.010	< 0.010	0.150	0.0302
SEP 10.80	SEP 9.80	0.61	0.17	0.105	0.040	0.020	0.560	0.0955
SEP 14.80	SEP 13.80	0.25	0.18	0.035	0.040	0.030	0.328	0.1023
SEP 15.80	SEP 14.80	0.13	0.15	0.010	0.020	0.040	0.790	0.1202
SEP 18.80	SEP 15.80	*****	*****	*****	*****	*****	*****	******
SEP 22.80	SEP 21.80	0.31	0.21	0.045	0.030	0.100	0.600	0.1072
SEP 23.80	SEP 22.80	0.26	0.20	0.025	0.020	0.080	0.430	0.0912
SEP 26.80	SEP 26.80	0.19	0.23	0.025	0.060	0.090	0.362	0.1023
OCT 3.80	OCT 2.80	0.60	0.23	0.085	0.090	0.110	0.680	0.1862
OCT 5.80	OCT 4.80	0.08	0.02	0.005	0.020	0.010	0.220	0.0575
OCT 7.80	OCT 6.80	0.40	0.46	0.045	0.110	0.100	0.490	0.1698
OCT 11.80	OCT 10.80	1.19	0.45	0.145	0.150	0.170	1.650	0.3020
OCT 18.80	OCT 17.80	0.58	0.62	0.080	0.130	0.380	0.366	0.1905
OCT 20.80	OCT 19.80	*****	*****	*****	*****	*****	*****	******
OCT 25.80	OCT 24.80	*****	*****	*****	*****	*****	0.580	0.0708
OCT 26.80	OCT 25.80	0.08	< 0.01	< 0.005	0.020	0.020	0.004	0.0062
OCT 27.80	OCT 26.80	*****	*****	*****	*****	*****	0.054	0.0195
NOV 4.80	NOV 3.80	0.43	0.29	0.025	0.050	0.120	0.274	0.1318
NOV 8.80	NOV 7.80	0.39	0.23	0.055	0.080	0.070	0.680	0.0646
NOV 9.80	NOV 8.80	0.99	0.24	0.100	0.060	0.055	0.920	0.0759
NOV 14.80	NOV 13.80	0.42	0.23	0.040	0.090	0.095	0.410	0.0891
NOV 18.80	NOV 17.80	*****	*****	*****	*****	*****	*****	0.0802

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM #10 PAGE : 4

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
NOV 22,80	NOV 21,80	800	800	****	****	1	0.8	1	33	2	1	126		N
NOV 24,80	NOV 23,80	800	745	****	****	1	0.6	1	34	2	1	80		
NOV 25,80	NOV 24,80	745	750	745	750	1	15.0	1	35	2	1	92		J
NOV 26,80	NOV 25,80	750	745	****	****	3	2.6	1	36	2	1	58		
NOV 28,80	NOV 27,80	800	800	****	****	3	3.6	1	37	2	1	59		L
NOV 29,80	NOV 28,80	800	800	****	****	3	8.6	1	38	2	1	93		L
DEC 3,80	DEC 2,80	800	800	****	****	3	37.6	1	39	2	1	93		L
DEC 8,80	DEC 7,80	800	800	1800	800	1	4.2	1	40	2	1	145		CNJ
DEC 9,80	DEC 8,80	800	820	800	2100	1	19.2	1	41	2	1	90		CM
DEC 10,80	DEC 9,80	820	800	1700	2300	2	****	*	42	2	1	****		
DEC 13,80	DEC 12,80	800	800	****	****	2	7.7	1	43	2	1	66		M
DEC 20,80	DEC 19,80	700	700	****	****	2	0.1	1	44	2	1	280		NL
DEC 23,80	DEC 22,80	800	800	****	****	2	****	*	45	2	1	****	G	L
DEC 25,80	DEC 24,80	800	900	1000	2100	2	4.8	1	46	2	1	44		CN
DEC 27,80	DEC 26,80	800	800	800	800	2	0.8	1	47	2	1	9		NC
JAN 1,81	DEC 31,80	800	800	****	****	2	3.8	1	48	2	1	65		CL
JAN 7,81	JAN 6,81	800	730	****	****	2	6.9	1	49	2	1	29		N
JAN 10,81	JAN 9,81	800	800	1300	2000	2	0.7	1	50	2	1	44		N
JAN 17,81	JAN 16,81	800	900	****	****	2	3.0	1	51	2	1	43		N
APR 25,81	APR 24,81	800	800	****	****	1	4.4	1	23500	2	1	33		N
APR 29,81	APR 28,81	800	800	****	****	1	7.8	1	23503	2	1	****	GE	
MAY 6,81	MAY 5,81	800	800	****	****	1	4.0	1	23506	2	1	86		
MAY 11,81	MAY 10,81	800	800	****	****	1	21.6	1	23509	2	1	98		
MAY 12,81	MAY 11,81	800	800	****	****	1	9.1	1	23512	2	1	94		
MAY 23,81	MAY 22,81	800	800	****	****	1	5.0	1	23515	2	1	71		
MAY 26,81	MAY 25,81	745	800	1300	1430	1	1.8	1	23518	2	1	66		
MAY 28,81	MAY 27,81	745	800	1600	800	1	22.0	1	23521	2	1	99		
MAY 29,81	MAY 28,81	800	800	800	1000	1	3.4	1	23524	2	1	91		
MAY 30,81	MAY 29,81	800	800	****	****	1	4.7	1	23528	2	1	98		
MAY 31,81	MAY 30,81	800	800	100	300	1	1.2	1	23531	2	1	68		
JUN 4,81	JUN 3,81	800	800	1000	1200	1	1.4	1	23538	2	1	43	A	N
JUN 5,81	JUN 4,81	800	800	****	800	1	2.6	1	23536	2	1	30		N
JUN 6,81	JUN 5,81	800	800	430	700	1	10.1	1	23533	2	1	100	GH	
JUN 9,81	JUN 8,81	800	800	1800	2400	1	4.0	1	23542	2	1	87	A	
JUN 13,81	JUN 12,81	800	800	****	****	1	2.0	1	23545	2	1	81		
JUN 16,81	JUN 15,81	800	800	1800	2400	1	4.0	1	23551	2	1	89		
JUN 22,81	JUN 21,81	800	800	500	800	1	18.2	1	23557	2	1	104		
JUN 23,81	JUN 22,81	800	800	800	200	1	51.6	1	23554	2	1	111		
JUN 25,81	JUN 24,81	800	800	****	****	1	1.0	1	23560	2	1	45		N
JUN 26,81	JUN 25,81	800	800	1700	1800	1	0.6	1	23563	2	1	5	E	N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM #10 PAGE : 5

REMOVAL DATE	EXPOSURE DATE		VOLUME ML	CONDUCT. UMHO/CM		PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L		SULPHATE MG/L		NITRATE AS N MG/L	
NOV 22,80	NOV 21,80		65.	*****		*****		3.84	******		5.40		2.18	
NOV 24,80	NOV 23,80		31.	*****		*****		4.45	******		*****		*****	
NOV 25,80	NOV 24,80		891.	22.4	U	3.36		4.29	0.0916		1.40		0.34	
NOV 26,80	NOV 25,80		98.	*****		*****		4.45	******		1.55		0.46	
NOV 28,80	NOV 27,80		137.	*****		*****		5.03	******		3.15		0.28	
NOV 29,80	NOV 28,80		518.	23.5		4.45		4.26	0.0752		1.65		0.46	
DEC 3,80	DEC 2,80		2257.	27.0		4.34		4.19	0.0910		1.75		0.50	
DEC 8,80	DEC 7,80		392.	29.0		4.57		4.10	0.0984		2.45		0.41	
DEC 9,80	DEC 8,80		1116.	32.0	U	4.84	U	4.00	0.1032		2.85		0.36	
DEC 10,80	DEC 9,80		91.	*****		*****		6.20	******		0.45		0.18	
DEC 13,80	DEC 12,80		329.	30.0		*****	U	4.09	0.0860	U	0.45	U	0.14	
DEC 20,80	DEC 19,80		18.	*****		*****		6.90	******		3.00		1.12	
DEC 23,80	DEC 22,80		130.	*****		*****		4.24	******		3.00		1.12	
DEC 25,80	DEC 24,80	U	137.	24.0		*****		4.18	******		1.50		1.04	
DEC 27,80	DEC 26,80	U	5.	*****		*****		*****	******		*****		*****	
JAN 1,81	DEC 31,80		160.	32.0		*****		4.02	******		0.50		0.98	
JAN 7,81	JAN 6,81	U	129.	46.5		*****		3.94	******		2.50		1.08	
JAN 10,81	JAN 9,81	U	20.	*****		*****		3.73	******		*****		*****	
JAN 17,81	JAN 16,81	U	83.	*****		*****		3.85	******		*****		*****	
APR 25,81	APR 24,81	U	95.	*****		*****	U	5.26	******	U	0.30		0.10	
APR 29,81	APR 28,81		*****	*****		*****		*****	******		*****		*****	
MAY 6,81	MAY 5,81		221.	*****		*****		3.95	******		5.05		0.91	
MAY 11,81	MAY 10,81		1363.	25.0		4.16		4.30	0.0800		2.35		0.37	
MAY 12,81	MAY 11,81		552.	31.8		4.14		4.21	0.0898		3.15		0.46	
MAY 23,81	MAY 22,81		229.	*****		*****		4.08	******		2.80		1.07	
MAY 26,81	MAY 25,81		77.	*****		*****		3.63	******		12.50		1.83	
MAY 28,81	MAY 27,81		1408.	38.6		3.89		4.13	0.1092		4.00		0.40	
MAY 29,81	MAY 28,81		200.	*****		*****		4.22	******		4.30		0.39	
MAY 30,81	MAY 29,81		296.	40.5		*****		4.10	0.1150		4.50		0.62	
MAY 31,81	MAY 30,81		53.	*****		*****		3.96	******		8.50		1.33	
JUN 4,81	JUN 3,81	U	39.	*****		*****		3.68	******		*****		*****	
JUN 5,81	JUN 4,81	U	51.	*****		*****		4.38	******		3.25		0.30	
JUN 6,81	JUN 5,81		650.	27.4		4.57		5.34	0.0422		4.70		1.01	
JUN 9,81	JUN 8,81		225.	*****		*****		3.65	******		11.90		1.42	
JUN 13,81	JUN 12,81		104.	*****		*****		4.46	******		2.70		0.40	
JUN 16,81	JUN 15,81		229.	68.0		*****		3.87	0.1806		5.35		1.40	
JUN 22,81	JUN 21,81		1224.	35.7		4.00		4.15	0.1000		3.45		0.36	
JUN 23,81	JUN 22,81		3673.	14.7		4.34		4.51	0.0584		1.50		0.13	
JUN 25,81	JUN 24,81	U	29.	*****		*****		4.22	******		*****		*****	
JUN 26,81	JUN 25,81	U	2.	*****		*****		*****	******		*****		*****	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM #10

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
NOV 22,80	NOV 21,80	*****	0.85	*****	*****	*****	*****	0.1445
NOV 24,80	NOV 23,80	*****	*****	*****	*****	*****	*****	0.0355
NOV 25,80	NOV 24,80	0.08	0.11	0.005	0.040	0.050	0.130	0.0513
NOV 26,80	NOV 25,80	0.46	0.20	0.035	0.090	0.170	*****	0.0355
NOV 28,80	NOV 27,80	0.40	0.22	0.030	0.060	> 1.000	0.152	0.0093
NOV 29,80	NOV 28,80	0.19	0.29	0.010	0.050	0.210	0.164	0.0550
DEC 3,80	DEC 2,80	0.20	0.09	0.005	0.010	0.040	0.200	0.0646
DEC 8,80	DEC 7,80	0.25	0.18	0.015	0.050	0.130	0.144	0.0794
DEC 9,80	DEC 8,80	0.04	0.20	0.010	0.030	0.080	0.328	U 0.1000
DEC 10,80	DEC 9,80	*****	0.24	*****	*****	*****	*****	0.0006
DEC 13,80	DEC 12,80	0.23	0.24	0.030	0.040	0.100	0.360	U 0.0813
DEC 20,80	DEC 19,80	*****	1.29	*****	*****	*****	*****	0.0001
DEC 23,80	DEC 22,80	0.92	1.29	0.095	0.170	U 1.750	0.090	0.0575
DEC 25,80	DEC 24,80	0.76	0.40	0.090	0.160	0.170	0.126	0.0661
DEC 27,80	DEC 26,80	*****	*****	*****	*****	*****	*****	******
JAN 1,81	DEC 31,80	0.13	0.31	0.010	0.040	0.160	0.056	0.0955
JAN 7,81	JAN 6,81	0.25	0.52	0.025	0.070	0.250	U 0.314	0.1148
JAN 10,81	JAN 9,81	*****	*****	*****	*****	*****	*****	0.1862
JAN 17,81	JAN 16,81	*****	*****	*****	*****	*****	0.076	0.1413
APR 25,81	APR 24,81	*****	0.12	*****	*****	*****	*****	U 0.0055
APR 29,81	APR 28,81	*****	*****	*****	*****	*****	*****	******
MAY 6,81	MAY 5,81	0.48	0.47	0.045	0.090	0.310	0.364	0.1122
MAY 11,81	MAY 10,81	0.16	0.26	0.010	0.040	0.200	0.190	0.0501
MAY 12,81	MAY 11,81	0.21	0.31	0.020	0.050	U 0.200	0.326	0.0617
MAY 23,81	MAY 22,81	0.50	0.33	0.030	0.040	0.320	0.154	0.0832
MAY 26,81	MAY 25,81	*****	1.39	*****	*****	*****	*****	0.2344
MAY 28,81	MAY 27,81	0.19	0.22	0.030	0.030	0.110	0.410	0.0741
MAY 29,81	MAY 28,81	0.37	0.46	0.050	0.040	0.450	0.580	0.0603
MAY 30,81	MAY 29,81	0.39	0.16	0.035	0.040	0.040	0.590	0.0794
MAY 31,81	MAY 30,81	*****	0.90	*****	*****	*****	*****	0.1096
JUN 4,81	JUN 3,81	*****	*****	*****	*****	*****	*****	0.2089
JUN 5,81	JUN 4,81	0.39	0.27	*****	0.160	0.120	*****	0.0417
JUN 6,81	JUN 5,81	1.34	0.37	0.265	0.120	0.280	1.100	0.0046
JUN 9,81	JUN 8,81	0.86	0.45	0.150	0.110	0.220	1.320	0.2239
JUN 13,81	JUN 12,81	0.43	0.64	0.035	0.200	U 0.660	0.266	0.0347
JUN 16,81	JUN 15,81	0.85	0.74	0.145	0.050	0.550	0.272	0.1349
JUN 22,81	JUN 21,81	0.08	0.10	0.005	0.020	0.070	0.540	0.0708
JUN 23,81	JUN 22,81	0.04	0.03	<T 0.005	<T 0.010	0.050	0.198	0.0309
JUN 25,81	JUN 24,81	*****	*****	*****	*****	*****	*****	0.0603
JUN 26,81	JUN 25,81	*****	*****	*****	*****	*****	*****	******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM #10 PAGE : 7

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JUN 27.81	JUN 26.81	800	800	1000	1506	1	1.7	1	23566	2	1	121		N
JUL 2.81	JUN 30.81	800	800	****	****	1	4.0	1	23569	2	1	86		Z
JUL 14.81	JUL 13.81	800	800	1700	1730	1	6.1	1	23572	2	1	110	C	
JUL 18.81	JUL 17.81	800	800	****	****	1	11.1	1	23575	2	1	102		
JUL 20.81	JUL 19.81	800	800	400	630	1	1.0	1	23578	2	1	21	E	N
JUL 21.81	JUL 20.81	800	800	900	1930	1	8.0	1	23581	2	1	88		
JUL 27.81	JUL 26.81	800	800	****	****	1	3.0	1	23585	2	1	98		
JUL 29.81	JUL 28.81	800	800	****	****	1	24.4	1	23587	2	1	99		
AUG 5.81	AUG 4.81	800	800	2200	600	1	6.8	1	23590	2	1	96		
AUG 6.81	AUG 5.81	800	800	800	900	1	0.5	1	23593	2	1	28	E	N
AUG 8.81	AUG 7.81	800	800	30	500	1	5.0	1	23596	2	1	98		
AUG 11.81	AUG 10.81	800	800	500	800	1	2.0	1	23599	2	1	89	GHC	
AUG 12.81	AUG 11.81	800	800	800	1200	1	14.3	1	23602	2	1	101		
AUG 15.81	AUG 14.81	800	800	200	800	1	38.1	1	23605	2	1	104		
AUG 16.81	AUG 15.81	800	800	800	1600	1	16.9	1	23608	2	1	116		
AUG 28.81	AUG 27.81	800	800	****	****	1	2.2	1	23611	2	1	84		
AUG 29.81	AUG 28.81	800	800	100	300	1	1.8	1	23614	2	1	91		
AUG 31.81	AUG 30.81	800	800	130	3300	1	16.4	1	23617	2	1	101		
SEP 2.81	SEP 1.81	800	800	400	600	1	8.5	1	23620	2	1	103		
SEP 4.81	SEP 2.81	800	800	800	800	1	8.6	1	23623	2	1	81		Z
SEP 5.81	SEP 4.81	800	800	1900	400	1	41.0	1	23626	2	1	101	C	J
SEP 6.81	SEP 5.81	800	800	800	100	1	1.6	1	23629	2	1	62		
SEP 8.81	SEP 6.81	800	800	****	****	1	2.4	1	23632	2	1	87		Z
SEP 9.81	SEP 8.81	800	800	1200	1900	1	34.9	1	23635	2	1	106		
SEP 11.81	SEP 10.81	800	800	900	400	1	55.0	1	23638	2	1	104		J
SEP 18.81	SEP 17.81	800	800	1100	1400	1	7.6	1	23641	2	1	101		
SEP 20.81	SEP 19.81	800	800	****	****	1	2.0	1	23644	2	1	79		
SEP 23.81	SEP 21.81	800	800	1800	900	1	11.2	1	23647	2	1	90		ZJ
SEP 24.81	SEP 23.81	800	800	800	1000	1	1.8	1	23650	2	1	59		
SEP 26.81	SEP 25.81	800	1800	****	1800	1	1.6	1	23653	2	1	86		
SEP 27.81	SEP 26.81	1800	1800	330	1400	1	13.6	1	23656	2	1	99		
SEP 28.81	SEP 27.81	1800	1800	****	****	1	0.4	1	23659	2	1	42	E	N
OCT 1.81	SEP 30.81	1800	1800	1000	1800	1	2.8	1	23661	2	1	56		
OCT 2.81	OCT 1.81	1800	1800	1000	1600	1	0.8	1	23664	2	1	29	E	N
OCT 7.81	OCT 6.81	800	800	1000	1400	1	12.3	1	23667	2	1	89		
OCT 8.81	OCT 7.81	800	800	800	1400	1	1.6	1	23670	2	1	66		
OCT 19.81	OCT 18.81	800	800	830	1400	1	13.2	1	23676	2	1	86		
OCT 22.81	OCT 21.81	800	800	1800	****	3	5.6	1	23679	2	1	95	C	
OCT 23.81	OCT 22.81	800	800	800	800	1	15.6	1	23682	2	1	88	C	
OCT 27.81	OCT 26.81	800	800	****	****	1	13.8	1	23685	2	1	90		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM #10

REMOVAL DATE	EXPOSURE DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JUN 27.81	JUN 26.81		132.	*****	*****		4.79	******	1.10	0.05
JUL 2.81	JUN 30.81		223.	*****	*****		3.66	******	11.50	1.56
JUL 14.81	JUL 13.81		432.	14.2	4.65		5.00	0.0416	2.20	0.34
JUL 18.81	JUL 17.81		731.	26.9	4.01		4.36	0.0750	2.40	0.50
JUL 20.81	JUL 19.81	U	14.	*****	*****		*****	******	*****	*****
JUL 21.81	JUL 20.81		454.	*****	*****		4.07	0.1190	6.20	0.37
JUL 27.81	JUL 26.81		189.	*****	*****		3.32	******	22.00	2.10
JUL 29.81	JUL 28.81		1551.	16.7	4.35		4.51	0.0556	1.50	0.15
AUG 5.81	AUG 4.81		421.	55.0	3.82		3.94	0.1422	5.35	0.59
AUG 6.81	AUG 5.81	U	9.	*****	*****		*****	******	*****	*****
AUG 8.81	AUG 7.81		315.	49.8	*****		3.99	0.1348	4.20	0.53
AUG 11.81	AUG 10.81		115.	*****	*****		3.93	******	4.60	0.92
AUG 12.81	AUG 11.81		932.	42.5	3.83		4.06	0.1202	4.40	0.30
AUG 15.81	AUG 14.81		2546.	46.8	*****		4.07	0.1296	4.50	0.61
AUG 16.81	AUG 15.81		1267.	47.2	*****		4.05	0.1282.	4.45	0.58
AUG 28.81	AUG 27.81		119.	*****	*****		3.97	******	5.45	1.57
AUG 29.81	AUG 28.81		106.	*****	*****		3.65	******	10.60	0.72
AUG 31.81	AUG 30.81		1072.	31.1	4.28		4.26	0.0864	3.30	0.24
SEP 2.81	SEP 1.81		565.	57.0	3.99		3.96	0.1432	4.90	0.76
SEP 4.81	SEP 2.81		450.	56.5	3.98		3.94	0.1510	5.10	0.65
SEP 5.81	SEP 4.81		2663.	24.4	U 3.34		4.33	0.0778	2.25	0.34
SEP 6.81	SEP 5.81		64.	*****	*****	U	5.54	******	1.30	1.36
SEP 8.81	SEP 6.81		134.	*****	*****		3.94	******	6.00	0.94
SEP 9.81	SEP 8.81		2391.	24.4	3.26		4.25	0.0844	2.35	0.20
SEP 11.81	SEP 10.81		3700.	14.4	3.76		5.79	0.0464	2.75	0.36
SEP 18.81	SEP 17.81		495.	16.4	4.45		4.48	0.0578	1.65	0.18
SEP 20.81	SEP 19.81		102.	*****	*****		5.21	******	3.75	0.88
SEP 23.81	SEP 21.81		647.	8.6	3.18		4.72	0.0476	0.55	0.14
SEP 24.81	SEP 23.81		69.	*****	*****		6.13	******	0.75	0.09
SEP 26.81	SEP 25.81		89.	*****	*****		3.67	******	9.40	1.18
SEP 27.81	SEP 26.81		868.	41.8	4.16		4.12	0.1090	4.45	0.44
SEP 28.81	SEP 27.81	U	11.	*****	*****		*****	******	*****	*****
OCT 1.81	SEP 30.81		102.	*****	*****		3.94	******	7.35	0.85
OCT 2.81	OCT 1.81	U	15.	*****	*****		*****	******	*****	*****
OCT 7.81	OCT 6.81		708.	41.2	4.15		4.09	0.1136	3.90	0.62
OCT 8.81	OCT 7.81		68.	*****	*****	U	6.15	******	0.65	0.22
OCT 19.81	OCT 18.81		730.	24.6	4.37		4.28	0.0814	2.40	0.29
OCT 22.81	OCT 21.81		344.	51.5	*****		4.01	0.1372	4.55	1.46
OCT 23.81	OCT 22.81		888.	61.8	3.90		3.93	0.1528	3.90	1.39
OCT 27.81	OCT 26.81		803.	9.3	4.76		4.88	0.0424	0.80	0.12

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM #10 PAGE : 9

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JUN 27,81	JUN 26,81	0.12	0.20	0.015	0.040	U 0.290	0.006	0.0162
JUL 2,81	JUN 30,81	0.70	0.53	0.115	0.120	0.250	1.110	0.2188
JUL 14,81	JUL 13,81	0.77	0.22	0.050	0.070	<T 0.010	0.366	0.0100
JUL 18,81	JUL 17,81	0.45	0.15	0.065	0.020	0.030	0.212	0.0437
JUL 20,81	JUL 19,81	*****	*****	*****	*****	*****	*****	******
JUL 21,81	JUL 20,81	0.42	0.20	0.030	0.050	0.200	0.700	0.0851
JUL 27,81	JUL 26,81	0.30	0.57	0.035	0.060	0.280	0.870	0.4786
JUL 29,81	JUL 28,81	0.09	0.05	0.005	0.020	0.030	0.140	0.0309
AUG 5,81	AUG 4,81	0.22	0.20	0.020	0.030	0.120	0.380	0.1148
AUG 6,81	AUG 5,81	*****	*****	*****	*****	*****	*****	******
AUG 8,81	AUG 7,81	0.07	0.15	0.005	0.010	0.110	0.188	0.1023
AUG 11,81	AUG 10,81	0.35	0.40	0.055	0.070	U 0.350	*****	0.1175
AUG 12,81	AUG 11,81	0.02	0.05	<T 0.005	0.010	0.020	0.404	0.0871
AUG 15,81	AUG 14,81	0.18	0.14	0.035	0.060	0.060	0.520	0.0851
AUG 16,81	AUG 15,81	0.16	0.15	0.030	0.040	0.050	0.510	0.0891
AUG 28,81	AUG 27,81	1.43	0.35	0.225	0.040	0.080	*****	0.1072
AUG 29,81	AUG 28,81	0.25	0.38	0.025	0.050	0.500	*****	0.2239
AUG 31,81	AUG 30,81	0.05	0.11	0.005	0.010	0.080	0.280	0.0550
SEP 2,81	SEP 1,81	0.12	0.34	0.020	0.080	0.300	0.420	0.1096
SEP 4,81	SEP 2,81	0.10	0.23	0.020	0.040	0.150	0.440	0.1148
SEP 5,81	SEP 4,81	U 0.17	0.12	0.015	0.020	0.050	0.228	0.0468
SEP 6,81	SEP 5,81	*****	0.52	*****	*****	*****	*****	U 0.0029
SEP 8,81	SEP 6,81	0.32	0.44	0.035	0.080	0.420	0.720	0.1148
SEP 9,81	SEP 8,81	0.02	0.08	0.005	0.010	0.010	0.130	0.0562
SEP 11,81	SEP 10,81	0.48	0.10	0.080	0.040	0.020	0.800	0.0016
SEP 18,81	SEP 17,81	0.17	0.14	0.020	0.020	0.120	0.148	0.0331
SEP 20,81	SEP 19,81	1.17	0.22	0.180	0.110	U 0.530	0.880	0.0062
SEP 23,81	SEP 21,81	0.17	0.07	0.010	0.010	0.060	0.052	0.0191
SEP 24,81	SEP 23,81	*****	U 0.68	*****	*****	*****	*****	0.0007
SEP 26,81	SEP 25,81	*****	0.48	*****	*****	*****	*****	0.2138
SEP 27,81	SEP 26,81	0.25	0.20	0.030	0.040	0.090	0.470	0.0759
SEP 28,81	SEP 27,81	*****	*****	*****	*****	*****	*****	******
OCT 1,81	SEP 30,81	*****	0.65	*****	*****	*****	0.680	0.1148
OCT 2,81	OCT 1,81	*****	*****	*****	*****	*****	*****	******
OCT 7,81	OCT 6,81	0.09	0.15	0.010	0.040	0.140	0.540	0.0813
OCT 8,81	OCT 7,81	*****	U 0.65	*****	*****	*****	*****	U 0.0007
OCT 19,81	OCT 18,81	0.14	0.23	0.020	0.100	0.110	0.308	0.0525
OCT 22,81	OCT 21,81	0.91	0.30	0.070	0.100	0.080	0.710	0.0977
OCT 23,81	OCT 22,81	0.56	0.34	0.040	U 0.120	U 0.230	0.370	0.1175
OCT 27,81	OCT 26,81	0.08	0.18	U 0.020	0.060	0.070	0.104	0.0132

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM #10

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
OCT 28.81	OCT 27.81	800	800	800	200	1	18.2	1	23688	2	1	94		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM #10 PAGE : 11

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
OCT 28.81	OCT 27.81	1098.	16.0	4.48	4.53	0.0550	0.90	0.23

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM #10

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
OCT 28,81	OCT 27,81	0.06	0.16	0.020	0.040	0.080	0.058	0.0295

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/SES #10

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 23.81	JAN 22.81	800	800	830	1030	2	****	*	2243	2	1	****		
JAN 26.81	JAN 25.81	800	800	2200	2300	1	****	*	2244	2	1	****		
FEB 2.81	FEB 1.81	800	800	1300	800	3	9.5	1	2245	2	1	88	G	
FEB 3.81	FEB 2.81	800	800	****	****	3	****	*	2246	2	1	****		
FEB 7.81	FEB 6.81	800	920	****	****	2	****	2	2247	2	1	****		
FEB 10.81	FEB 9.81	800	745	****	****	2	2.4	2	2248	2	1	33		N
FEB 11.81	FEB 10.81	800	800	1500	800	1	36.4	2	2249	2	1	63		
FEB 12.81	FEB 11.81	800	800	800	2400	3	8.4	2	2250	2	1	104		J
FEB 17.81	FEB 16.81	800	800	****	****	1	****	*	2251	2	1	****		
FEB 20.81	FEB 19.81	830	800	830	2000	1	24.6	1	2252	2	1	100		
FEB 21.81	FEB 20.81	800	800	1100	****	1	20.6	2	1845	2	1	75		
FEB 24.81	FEB 23.81	800	800	900	****	1	27.8	2	1848	2	1	76		
FEB 28.81	FEB 27.81	800	800	****	****	3	****	*	1851	2	1	****		
MAR 2.81	MAR 1.81	800	800	****	730	3	0.2	2	1852	2	1	570		N
MAR 3.81	MAR 2.81	800	800	800	1100	2	[illegible]	*	2144	2	1	****	E	
MAR 5.81	MAR 4.81	800	800	****	****	2		*	1831	2	1	****	C	
MAR 7.81	MAR 6.81	800	800	****	800	3	/	2	1832	2	1	66		
MAR 9.81	MAR 8.81	800	800	2230	800	2	****	*	1833	2	1	****		
MAR 11.81	MAR 10.81	800	800	****	800	2	0.6	2	1834	2	1	71		
MAR 12.81	MAR 11.81	800	800	1000	****	2	0.5	2	1835	2	1	102		
MAR 13.81	MAR 12.81	800	800	1000	1800	2	2.4	2	1836	2	1	46		N
MAR 14.81	MAR 13.81	800	800	2000	2100	2	0.5	2	1837	2	1	46		N
MAR 16.81	MAR 15.81	800	800	1600	1700	3	1.0	2	1838	2	1	111		
MAR 18.81	MAR 17.81	800	800	815	1800	2	6.6	2	1839	2	1	32		N
MAR 20.81	MAR 19.81	800	800	****	****	2	1.4	2	1840	2	1	99		
MAR 27.81	MAR 26.81	800	800	****	****	1	1.0	1	1841	2	1	99	A	
MAR 31.81	MAR 30.81	800	800	830	1500	1	12.0	1	1842	2	1	90		
APR 2.81	APR 1.81	800	800	****	****	1	4.5	1	1843	2	1	90		
APR 6.81	APR 4.81	800	800	****	****	3	12.6	1	1868	2	1	84		Z
APR 10.81	APR 9.81	800	800	****	****	1	2.6	1	2110	2	1	69		
APR 11.81	APR 10.81	800	800	****	****	1	3.2	1	2113	2	1	76		
APR 15.81	APR 14.81	800	800	****	****	1	18.0	1	2116	2	1	84		
APR 18.81	APR 17.81	800	800	****	****	1	14.6	1	2119	2	1	103		
APR 24.81	APR 23.81	800	800	****	****	1	11.7	1	2122	2	1	97		
JUN 15.81	JUN 14.81	800	800	1830	2130	1	14.0	1	23550	2	1	83		
NOV 8.81	NOV 6.81	800	800	****	****	1	24.5	1	23693	2	1	5	HG	ZN
NOV 17.81	NOV 16.81	800	800	400	800	1	4.2	1	23696	2	1	100		
NOV 19.81	NOV 18.81	800	800	600	800	1	0.2	1	23698	2	1	548		N
NOV 20.81	NOV 19.81	800	800	100	730	1	4.2	1	23701	2	1	94		
NOV 21.81	NOV 20.81	800	800	****	****	3	5.2	2	23704	2	1	102		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/SES #10 PAGE : 2

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 23.81	JAN 22.81	119.	*****	*****	4.11	******	3.85	0.82
JAN 26.81	JAN 25.81	137.	*****	*****	4.03	******	4.85	0.94
FEB 2.81	FEB 1.81	1379.	23.5	4.84	4.79	0.0490	2.35	0.87
FEB 3.81	FEB 2.81	365.	15.2	4.54	4.49	0.0560	0.75	0.32
FEB 7.81	FEB 6.81	310.	47.5	*****	3.99	0.1436	2.15	1.46
FEB 10.81	FEB 9.81	U 132.	45.6	*****	4.28	******	2.70	U 1.63
FEB 11.81	FEB 10.81	3808.	20.8	4.19	4.40	0.0700	1.35	0.41
FEB 12.81	FEB 11.81	1445.	23.3	3.44	4.29	0.0800	1.90	0.28
FEB 17.81	FEB 16.81	638.	40.0	4.18	4.31	0.0920	4.35	1.05
FEB 20.81	FEB 19.81	4055.	38.0	4.10	4.14	0.1102	2.50	0.70
FEB 21.81	FEB 20.81	2553.	13.4	4.34	4.91	0.0320	U 1.10	0.21
FEB 24.81	FEB 23.81	3468.	4.7	4.39	U 5.42	0.0244	0.40	0.20
FEB 28.81	FEB 27.81	410.	42.0	4.26	4.48	0.0794	6.95	U 1.16
MAR 2.81	MAR 1.81	187.	*****	*****	3.62	0.3068	11.20	2.60
MAR 3.81	MAR 2.81	48.	*****	*****	*****	******	*****	*****
MAR 5.81	MAR 4.81	69.	*****	*****	U 5.42	******	2.75	2.07
MAR 7.81	MAR 6.81	186.	*****	*****	6.76	******	2.00	0.18
MAR 9.81	MAR 8.81	52.	*****	*****	4.51	******	4.25	0.40
MAR 11.81	MAR 10.81	70.	*****	*****	U 5.69	******	U 3.85	0.44
MAR 12.81	MAR 11.81	84.	*****	*****	4.46	******	3.40	0.33
MAR 13.81	MAR 12.81	U 183.	39.7	*****	U 6.50	******	5.90	1.50
MAR 14.81	MAR 13.81	U 38.	*****	*****	U 6.59	******	4.20	0.26
MAR 16.81	MAR 15.81	183.	*****	*****	U 7.09	******	4.40	1.08
MAR 18.81	MAR 17.81	U 347.	25.0	*****	4.60	0.0588	1.70	1.07
MAR 20.81	MAR 19.81	228.	*****	*****	5.65	0.0260	0.70	0.30
MAR 27.81	MAR 26.81	163.	*****	*****	3.80	******	11.00	6.00
MAR 31.81	MAR 30.81	1783.	31.7	4.42	4.59	0.0708	5.40	0.70
APR 2.81	APR 1.81	664.	56.0	4.06	4.13	0.1234	6.30	1.34
APR 6.81	APR 4.81	1751.	52.0	3.62	4.20	0.1146	8.70	0.80
APR 10.81	APR 9.81	297.	47.4	*****	4.25	0.1036	6.70	0.83
APR 11.81	APR 10.81	402.	38.0	3.64	4.38	0.0842	4.95	0.94
APR 15.81	APR 14.81	2506.	19.2	3.70	4.53	0.0579	2.50	0.25
APR 18.81	APR 17.81	2472.	28.5	3.87	4.55	0.0638	3.95	0.84
APR 24.81	APR 23.81	1871.	34.0	3.58	4.21	0.0984	3.60	0.58
JUN 15.81	JUN 14.81	1911.	60.0	3.71	3.91	0.1604	6.20	0.66
NOV 8.81	NOV 6.81	U 215.	*****	*****	5.46	0.0296	0.35	0.11
NOV 17.81	NOV 16.81	695.	31.0	3.69	4.21	0.0939	2.25	0.65
NOV 19.81	NOV 18.81	180.	*****	*****	3.66	0.2636	6.60	U 2.08
NOV 20.81	NOV 19.81	653.	42.8	U 4.04	4.08	0.1234	3.20	0.92
NOV 21.81	NOV 20.81	876.	51.5	U 3.95	3.98	0.1430	3.15	1.10

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/SES #10 PAGE : 1

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 23.81	JAN 22.81	*****	0.44	*****	*****	*****	0.730	0.0776
JAN 26.81	JAN 25.81	U 1.04	U 1.60	U 0.100	0.040	U 1.150	0.450	0.0933
FEB 2.81	FEB 1.81	U 1.71	0.52	U 0.125	0.100	0.300	0.178	0.0162
FEB 3.81	FEB 2.81	0.04	0.07	0.005	0.040	<T 0.010	0.080	0.0324
FEB 7.81	FEB 6.81	0.53	0.90	0.075	0.090	0.290	0.380	0.1023
FEB 10.81	FEB 9.81	1.94	1.46	0.230	0.090	0.820	0.380	0.0525
FEB 11.81	FEB 10.81	0.13	0.31	0.040	0.030	0.180	0.124	0.0398
FEB 12.81	FEB 11.81	0.04	0.08	0.015	<T 0.010	0.020	0.118	0.0513
FEB 17.81	FEB 16.81	1.06	0.87	0.170	0.100	0.830	0.590	0.0490
FEB 20.81	FEB 19.81	0.10	0.19	U 0.160	0.020	0.100	0.292	0.0724
FEB 21.81	FEB 20.81	U 0.32	U 1.12	U 0.120	0.030	U 0.700	0.086	0.0123
FEB 24.81	FEB 23.81	0.26	0.05	0.035	0.040	0.030	0.078	U 0.0038
FEB 28.81	FEB 27.81	U 2.25	0.34	0.220	0.090	U 0.640	U 1.110	0.0331
MAR 2.81	MAR 1.81	*****	0.48	*****	*****	*****	1.690	0.2399
MAR 3.81	MAR 2.81	*****	*****	*****	*****	*****	*****	******
MAR 5.81	MAR 4.81	*****	0.86	*****	*****	*****	0.550	U 0.0038
MAR 7.81	MAR 6.81	1.40	0.76	0.130	0.040	0.540	0.214	0.0002
MAR 9.81	MAR 8.81	*****	0.55	*****	*****	*****	*****	0.0309
MAR 11.81	MAR 10.81	*****	U 0.46	*****	*****	*****	0.500	U 0.0020
MAR 12.81	MAR 11.81	*****	0.56	*****	*****	*****	0.304	0.0347
MAR 13.81	MAR 12.81	U 2.30	1.01	U 0.500	0.130	0.440	1.510	U 0.0003
MAR 14.81	MAR 13.81	*****	0.58	*****	*****	*****	*****	U 0.0003
MAR 16.81	MAR 15.81	U 2.75	0.48	U 0.395	0.140	0.250	1.000	U 0.0001
MAR 18.81	MAR 17.81	1.19	0.59	0.185	0.040	0.220	0.380	0.0251
MAR 20.81	MAR 19.81	0.58	0.45	0.100	<T 0.010	0.250	0.074	0.0022
MAR 27.81	MAR 26.81	5.80	2.10	0.640	0.240	0.890	1.830	0.1585
MAR 31.81	MAR 30.81	1.66	0.34	0.135	0.040	0.250	0.660	0.0257
APR 2.81	APR 1.81	1.43	0.38	0.175	0.060	0.130	1.060	0.0741
APR 6.81	APR 4.81	1.69	0.45	0.220	0.150	0.310	0.980	0.0631
APR 10.81	APR 9.81	1.24	0.64	0.195	0.080	0.470	0.840	0.0562
APR 11.81	APR 10.81	1.52	0.26	0.150	0.080	0.140	0.790	0.0417
APR 15.81	APR 14.81	0.44	0.14	0.055	0.010	0.110	0.214	0.0295
APR 18.81	APR 17.81	1.06	0.13	0.125	0.020	0.060	0.810	0.0282
APR 24.81	APR 23.81	0.50	0.22	0.070	0.010	0.180	0.330	0.0617
JUN 15.81	JUN 14.81	0.09	0.20	0.015	0.050	0.070	0.730	0.1230
NOV 8.81	NOV 6.81	0.22	0.19	<T 0.005	0.080	0.120	0.060	0.0035
NOV 17.81	NOV 16.81	0.27	0.30	0.045	0.040	0.190	0.310	0.0617
NOV 19.81	NOV 18.81	0.48	0.27	0.020	0.040	0.080	*****	0.2188
NOV 20.81	NOV 19.81	0.34	0.09	0.025	0.040	0.050	0.520	0.0832
NOV 21.81	NOV 20.81	0.14	0.11	<T 0.005	0.200	0.030	0.460	0.1047

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : HAILTON/DAILY/SES #10

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
NOV 23.81	NOV 22.81	****	800	****	****	3	0.5	2	23707	2	1	141	N	
NOV 27.81	NOV 26.81	800	800	****	****	1	7.8	2	23710	2	1	103		J
DEC 2.81	DEC 1.81	800	800	2200	200	1	1.4	2	23713	2	1	109		
DEC 8.81	DEC 7.81	800	800	1700	800	3	3.0	2	23716	2	1	111		J
DEC 9.81	DEC 8.81	800	800	800	1200	3	2.2	2	23719	2	1	50		
DEC 11.81	DEC 10.81	800	800	1600	2200	2	1.8	2	23722	2	1	26	N	
DEC 15.81	DEC 14.81	800	800	1900	2400	2	****	2	23725	2	1	****		
DEC 22.81	DEC 21.81	800	800	****	****	2	****	*	23728	2	1	****		
DEC 24.81	DEC 22.81	800	800	****	****	2	15.2	2	23731	2	1	83	Z	
DEC 28.81	DEC 26.81	800	800	****	****	2	13.1	2	23734	2	1	71	Z	
DEC 29.81	DEC 28.81	800	800	2000	200	2	6.6	2	23735	2	1	61		
JAN 1.82	DEC 31.81	800	800	2100	200	2	19.4	2	23738	2	1	63		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : HAILTON/DAILY/SES #10

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 UG/L	SULPHATE MG/L	NITRATE AS N MG/L
NOV 23.81	NOV 22.81	116.	*****	*****	4.40	******	0.65	0.54
NOV 27.81	NOV 26.81	1321.	38.5	3.21	4.14	0.1054	3.55	0.64
DEC 2.81	DEC 1.81	252.	84.0	*****	3.86	******	7.20	1.71
DEC 8.81	DEC 7.81	549.	35.8	3.28	4.35	0.0928	2.75	1.43
DEC 9.81	DEC 8.81	182.	*****	*****	4.04	******	2.50	0.96
DEC 11.81	DEC 10.81	U 78.	5.0	*****	U 5.99	******	0.35	0.07
DEC 15.81	DEC 14.81	67.	*****	*****	3.60	******	12.80	2.80
DEC 22.81	DEC 21.81	560.	19.0	U 6.17	U 6.32	0.0482	2.00	0.80
DEC 24.81	DEC 22.81	2070.	34.0	4.03	4.07	0.1128	2.25	0.50
DEC 28.81	DEC 26.81	1535.	24.1	4.22	4.36	0.0842	1.45	0.38
DEC 29.81	DEC 28.81	668.	20.8	4.24	4.29	0.0764	0.60	0.60
JAN 1.82	DEC 31.81	2012.	27.5	4.13	4.20	0.0864	1.90	0.40

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/SES #10

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
NOV 23.81	NOV 22.81	*****	0.02	*****	*****	*****	0.108	0.0398
NOV 27.81	NOV 26.81	0.35	0.24	0.045	0.050	0.140	0.390	0.0724
DEC 2.81	DEC 1.81	0.86	0.44	0.095	0.080	0.180	0.890	0.1380
DEC 8.81	DEC 7.81	1.47	0.23	0.080	0.040	0.070	0.730	0.0447
DEC 9.81	DEC 8.81	0.09	0.10	0.010	<T 0.010	0.050	0.390	0.0912
DEC 11.81	DEC 10.81	*****	0.15	*****	*****	*****	*****	U 0.0010
DEC 15.81	DEC 14.81	*****	1.08	*****	*****	*****	1.730	0.2512
DEC 22.81	DEC 21.81	U 2.40	0.28	0.145	0.050	0.210	0.248	U 0.0005
DEC 24.81	DEC 22.81	0.12	0.11	<T 0.005	0.020	0.050	0.150	0.0851
DEC 28.81	DEC 26.81	0.09	0.04	<T 0.005	0.010	0.020	0.202	0.0437
DEC 29.81	DEC 28.81	0.16	0.08	<T 0.005	0.010	0.040	0.146	0.0513
JAN 1.82	DEC 31.81	0.08	0.08	0.010	0.050	0.070	0.212	0.0631

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11 PAGE : 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
MAY 6.81	MAY 5.81	745	745	****	****	1	2.4	1	23009	2	1	61	GF	
MAY 11.81	MAY 10.81	745	745	****	****	1	18.2	1	23011	2	1	49	F	N
MAY 12.81	MAY 11.81	745	745	****	****	1	25.5	1	23013	2	1	26		N
MAY 13.81	MAY 12.81	745	745	****	****	1	1.2	1	23015	2	1	84	F	
MAY 16.81	MAY 15.81	745	745	****	****	1	8.2	1	23019	2	1	****	FEK	
MAY 17.81	MAY 16.81	745	745	****	****	1	4.1	1	23017	2	1	82		
MAY 26.81	MAY 25.81	745	745	1000	1630	1	3.0	1	23021	2	1	94		
MAY 28.81	MAY 27.81	745	745	****	****	1	34.8	1	23023	2	1	100		
MAY 29.81	MAY 28.81	745	745	800	1130	1	8.2	1	23025	2	1	80	GH	
MAY 31.81	MAY 30.81	745	1000	745	9000	1	4.2	1	23027	2	1	84	HG	
JUN 4.81	JUN 3.81	745	745	1100	1530	1	6.4	1	23029	2	1	118	GH	
JUN 5.81	JUN 4.81	745	740	****	1400	1	22.7	1	23031	2	1	98	AGH	
JUN 6.81	JUN 5.81	740	800	100	600	1	4.0	1	23033	2	1	101		
JUN 7.81	JUN 6.81	800	900	915	1300	1	2.2	1	23035	2	1	87		
JUN 9.81	JUN 8.81	745	745	1200	600	1	5.2	1	23037	2	1	97		
JUN 13.81	JUN 12.81	745	645	1400	1600	1	1.4	1	23039	2	1	79		
JUN 15.81	JUN 14.81	745	745	1900	400	1	4.8	1	23041	2	1	92		
JUN 16.81	JUN 15.81	745	745	1900	2400	1	2.4	1	23043	2	1	96		
JUN 17.81	JUN 16.81	745	745	2115	2300	1	1.0	1	23045	2	1	92		
JUN 18.81	JUN 17.81	745	745	1700	1500	1	0.4	1	23047	2	1	42	E	N
JUN 20.81	JUN 19.81	745	900	****	1900	1	1.0	1	23050	2	1	70		
JUN 22.81	JUN 21.81	745	745	2400	745	1	****	*	23051	2	1	****		
JUN 23.81	JUN 22.81	745	745	745	1000	1	47.4	1	23053	2	1	100		
JUN 25.81	JUN 24.81	745	745	1400	2100	1	0.4	1	23055	2	1	70	E	
JUN 26.81	JUN 25.81	745	745	1720	1820	1	9.0	1	23057	2	1	97		
JUN 27.81	JUN 26.81	745	745	745	1030	1	4.4	1	23059	2	1	95		
JUL 1.81	JUN 30.81	745	745	1430	1445	1	0.6	1	23061	2	1	91	A	
JUL 3.81	JUL 2.81	745	745	1245	1330	1	0.4	1	23063	2	1	35	E	N
JUL 10.81	JUL 9.81	745	745	1515	1520	1	12.7	1	23065	2	1	96	A	
JUL 14.81	JUL 13.81	745	745	1900	2300	1	2.0	1	23067	2	1	26	GH	N
JUL 18.81	JUL 17.81	745	745	100	715	1	8.9	1	23069	2	1	100		C
JUL 19.81	JUL 18.81	745	945	1500	1545	1	3.0	1	23071	2	1	79		
JUL 20.81	JUL 19.81	945	700	1730	1815	1	1.2	1	23073	2	1	59		
JUL 21.81	JUL 20.81	900	900	400	700	1	24.3	1	23075	2	1	104		
JUL 22.81	JUL 21.81	900	845	****	****	1	0.3	1	23077	2	1	20	E	N
JUL 27.81	JUL 26.81	745	745	1530	2000	1	5.2	1	23079	2	1	100		
JUL 29.81	JUL 28.81	745	900	1400	500	1	23.8	1	23080	2	1	101	FI	
JUL 30.81	JUL 29.81	900	800	1810	2000	1	2.0	1	23081	2	1	87	AFJE	
AUG 5.81	AUG 4.81	745	815	2200	2400	1	7.4	1	23082	2	1	94		
AUG 6.81	AUG 5.81	815	900	1000	1200	1	0.8	1	23083	2	1	50	ABCD	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
MAY 6.81	MAY 5.81	94.	*****	*****	4.07	******	4.20	0.93
MAY 11.81	MAY 10.81	U 580.	26.8	4.04	4.28	0.0918	2.15	0.47
MAY 12.81	MAY 11.81	U 436.	16.0	4.38	4.49	0.0676	1.20	0.28
MAY 13.81	MAY 12.81	65.	*****	*****	3.78	******	9.75	1.40
MAY 16.81	MAY 15.81	*****	*****	*****	*****	******	*****	*****
MAY 17.81	MAY 16.81	217.	*****	*****	3.96	******	4.25	0.85
MAY 26.81	MAY 25.81	181.	*****	*****	3.72	******	10.20	1.46
MAY 28.81	MAY 27.81	2245.	35.6	3.96	4.07	0.1208	4.25	0.42
MAY 29.81	MAY 28.81	425.	16.0	4.41	U 4.64	0.0632	U 2.00	U 0.17
MAY 31.81	MAY 30.81	228.	*****	*****	3.99	******	5.60	0.86
JUN 4.81	JUN 3.81	485.	48.0	3.89	3.96	0.1388	5.00	0.39
JUN 5.81	JUN 4.81	1439.	16.7	4.37	4.45	0.0678	1.75	0.21
JUN 6.81	JUN 5.81	261.	42.0	*****	4.54	******	6.05	1.67
JUN 7.81	JUN 6.81	123.	*****	*****	4.50	******	5.00	0.98
JUN 9.81	JUN 8.81	325.	81.0	*****	3.77	0.2058	8.25	1.22
JUN 13.81	JUN 12.81	71.	*****	*****	4.49	******	2.20	0.27
JUN 15.81	JUN 14.81	285.	44.2	*****	4.04	0.1272	4.55	0.47
JUN 16.81	JUN 15.81	148.	*****	*****	4.06	******	3.45	0.79
JUN 17.81	JUN 16.81	59.	*****	*****	4.31	******	2.45	0.35
JUN 18.81	JUN 17.81	U 11.	*****	*****	*****	******	*****	*****
JUN 20.81	JUN 19.81	45.	*****	*****	3.89	******	9.15	1.84
JUN 22.81	JUN 21.81	661.	46.0	3.89	4.04	0.1270	4.90	0.57
JUN 23.81	JUN 22.81	3058.	17.5	4.25	4.43	0.0654	1.75	0.23
JUN 25.81	JUN 24.81	18.	*****	*****	*****	******	*****	*****
JUN 26.81	JUN 25.81	560.	30.0	3.97	4.23	0.0864	3.20	0.49
JUN 27.81	JUN 26.81	269.	11.2	*****	4.70	0.0500	1.10	0.06
JUL 1.81	JUN 30.81	35.	*****	*****	3.48	******	*****	*****
JUL 3.81	JUL 2.81	U 9.	*****	*****	*****	******	*****	*****
JUL 10.81	JUL 9.81	786.	14.1	4.39	4.87	0.0446	2.10	0.20
JUL 14.81	JUL 13.81	U 34.	*****	*****	4.81	******	*****	*****
JUL 18.81	JUL 17.81	575.	U 20.9	3.96	4.51	0.0612	1.70	0.28
JUL 19.81	JUL 18.81	152.	*****	*****	4.48	******	1.75	0.30
JUL 20.81	JUL 19.81	46.	*****	*****	3.75	******	7.65	1.05
JUL 21.81	JUL 20.81	1628.	32.8	3.89	4.16	0.0974	3.80	0.16
JUL 22.81	JUL 21.81	U 4.	*****	*****	*****	******	*****	*****
JUL 27.81	JUL 26.81	334.	41.8	*****	U 4.05	0.1198	U 4.40	U 0.26
JUL 29.81	JUL 28.81	1546.	15.6	4.33	4.45	0.0620	1.20	0.16
JUL 30.81	JUL 29.81	112.	*****	*****	*****	******	*****	*****
AUG 5.81	AUG 4.81	450.	103.0	3.56	3.68	0.2516	U 11.00	1.11
AUG 6.81	AUG 5.81	26.	*****	*****	U 7.90	******	*****	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11 PAGE : 3

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
MAY 6,81	MAY 5,81	*****	0.23	*****	*****	*****	0.460	0.0851
MAY 11,81	MAY 10,81	0.12	0.14	0.015	0.020	0.080	0.172	0.0525
MAY 12,81	MAY 11,81	0.05	0.09	<T 0.005	0.020	0.060	0.148	0.0324
MAY 13,81	MAY 12,81	*****	0.20	*****	*****	*****	*****	0.1660
MAY 16,81	MAY 15,81	*****	*****	*****	*****	*****	*****	******
MAY 17,81	MAY 16,81	0.13	0.11	0.025	0.030	0.040	0.326	0.1096
MAY 26,81	MAY 25,81	1.10	0.91	0.180	0.170	0.590	0.980	0.1905
MAY 28,81	MAY 27,81	0.12	0.17	0.020	0.030	0.060	0.570	0.0851
MAY 29,81	MAY 28,81	0.14	0.41	0.055	0.100	0.520	0.196	U 0.0229
MAY 31,81	MAY 30,81	0.39	0.27	0.095	0.040	0.120	0.620	0.1023
JUN 4,81	JUN 3,81	0.13	0.29	0.030	0.100	0.190	0.164	0.1096
JUN 5,81	JUN 4,81	0.13	0.23	0.025	0.120	0.180	0.140	0.0355
JUN 6,81	JUN 5,81	2.00	0.38	0.375	0.070	0.080	1.440	0.0238
JUN 7,81	JUN 6,81	1.08	0.21	0.210	0.070	0.260	1.110	0.0316
JUN 9,81	JUN 8,81	0.43	0.26	0.075	0.050	0.080	1.010	0.1698
JUN 13,81	JUN 12,81	*****	0.20	*****	*****	*****	0.232	0.0324
JUN 15,81	JUN 14,81	0.08	0.14	0.010	0.020	0.110	0.460	0.0912
JUN 16,81	JUN 15,81	0.29	0.31	0.035	0.030	0.170	0.306	0.0871
JUN 17,81	JUN 16,81	*****	0.24	*****	*****	*****	*****	0.0490
JUN 18,81	JUN 17,81	*****	*****	*****	*****	*****	*****	******
JUN 20,81	JUN 19,81	*****	0.34	*****	*****	*****	*****	0.1288
JUN 22,81	JUN 21,81	0.16	0.09	0.020	0.020	0.020	0.640	0.0912
JUN 23,81	JUN 22,81	0.02	<T 0.01	<T 0.005	0.010	0.010	0.178	0.0372
JUN 25,81	JUN 24,81	*****	*****	*****	*****	*****	*****	******
JUN 26,81	JUN 25,81	0.29	0.09	0.040	0.030	0.020	0.480	0.0589
JUN 27,81	JUN 26,81	0.04	0.02	0.015	<T 0.010	0.010	0.014	0.0200
JUL 1,81	JUN 30,81	*****	*****	*****	*****	*****	*****	0.3311
JUL 3,81	JUL 2,81	*****	*****	*****	*****	*****	*****	******
JUL 10,81	JUL 9,81	0.22	0.11	0.025	0.040	0.070	0.430	0.0135
JUL 14,81	JUL 13,81	*****	*****	*****	*****	*****	*****	0.0155
JUL 18,81	JUL 17,81	0.23	0.07	0.020	<T 0.010	0.020	0.114	0.0309
JUL 19,81	JUL 18,81	0.19	0.08	0.025	0.020	0.040	0.210	0.0331
JUL 20,81	JUL 19,81	*****	0.22	*****	*****	*****	*****	0.1778
JUL 21,81	JUL 20,81	0.02	0.04	0.005	0.010	0.010	0.340	0.0692
JUL 22,81	JUL 21,81	*****	*****	*****	*****	*****	*****	******
JUL 27,81	JUL 26,81	0.07	0.08	0.010	0.010	0.020	0.198	U 0.0891
JUL 29,81	JUL 28,81	0.03	0.04	<T 0.005	<T 0.010	<T 0.010	0.054	0.0355
JUL 30,81	JUL 29,81	*****	*****	*****	*****	*****	*****	******
AUG 5,81	AUG 4,81	0.26	0.22	0.035	0.020	0.020	U 1.060	0.2089
AUG 6,81	AUG 5,81	*****	*****	*****	*****	*****	*****	U 0.0000

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
AUG 8.81	AUG 7.81	745	745	300	745	1	5.8	1	23084	2	1	85		
AUG 9.81	AUG 8.81	745	900	2100	2200	1	16.0	1	23085	2	1	44		N
AUG 11.81	AUG 10.81	745	745	600	745	1	0.6	1	23086	2	1	67		
AUG 12.81	AUG 11.81	745	745	900	1120	1	5.8	1	23087	2	1	95	A	
AUG 14.81	AUG 13.81	745	800	930	1030	1	0.2	1	23088	2	1	39	JE	N
AUG 15.81	AUG 14.81	800	730	400	600	1	13.1	1	23089	2	1	100	J	
AUG 16.81	AUG 15.81	730	830	845	2130	1	26.4	1	23090	2	1	104	JF	
AUG 17.81	AUG 16.81	830	800	1300	1401	1	0.8	1	23091	2	1	38	E	N
AUG 25.81	AUG 24.81	745	745	1300	1400	1	1.6	1	23092	2	1	51	JF	
AUG 28.81	AUG 27.81	745	930	****	****	1	2.0	1	23093	2	1	85		
AUG 29.81	AUG 28.81	930	745	2400	745	1	3.4	1	23094	2	1	97		
AUG 31.81	AUG 30.81	745	745	200	500	1	6.0	1	23095	2	1	94	FJ	
SEP 1.81	AUG 31.81	745	745	1515	1620	1	6.0	1	23096	2	1	101	JF	
SEP 2.81	SEP 1.81	745	745	645	745	1	5.5	1	23097	2	1	103		
SEP 3.81	SEP 2.81	745	745	1730	1830	1	4.6	1	23098	2	1	84		
SEP 4.81	SEP 3.81	800	830	800	910	1	0.4	1	23099	2	1	27	D	N
SEP 5.81	SEP 4.81	800	800	1800	2100	1	18.6	1	23100	2	1	102		J
SEP 6.81	SEP 5.81	830	1000	1815	430	1	8.6	1	23101	2	1	93	AJ	J
SEP 9.81	SEP 8.81	745	745	1630	1730	1	27.6	1	23102	2	1	102	A	
SEP 10.81	SEP 9.81	745	745	1025	1115	1	0.4	1	23103	2	1	31	E	N
SEP 11.81	SEP 10.81	745	745	910	1515	1	24.6	1	23104	2	1	106	J	
SEP 12.81	SEP 11.81	745	745	200	400	1	1.2	1	23105	2	1	87		
SEP 18.81	SEP 17.81	745	800	915	1435	1	12.0	1	23106	2	1	101		
SEP 20.81	SEP 19.81	745	830	1830	115	1	1.5	1	23107	2	1	88		
SEP 22.81	SEP 21.81	830	745	100	630	1	8.0	1	23108	2	1	102		
SEP 23.81	SEP 22.81	745	830	200	730	1	15.6	1	23109	2	1	100		
SEP 24.81	SEP 23.81	830	745	830	2345	1	12.6	1	23110	2	1	97		
SEP 27.81	SEP 26.81	745	1000	600	1000	1	12.2	1	23111	2	1	93		
SEP 28.81	SEP 27.81	1000	745	1000	745	1	6.0	1	23112	2	1	95		
SEP 29.81	SEP 28.81	745	745	1000	1215	1	1.2	1	23113	2	1	74		
OCT 2.81	OCT 1.81	745	745	1700	2200	1	3.0	1	23114	2	1	78		
OCT 3.81	OCT 2.81	745	800	1200	2200	1	3.8	1	23115	2	1	67		
OCT 4.81	OCT 3.81	800	900	1200	1400	1	0.3	1	23116	2	1	41	E	N
OCT 5.81	OCT 4.81	900	745	2200	745	1	0.6	1	23117	2	1	57		
OCT 6.81	OCT 5.81	745	800	630	830	1	0.4	1	23118	2	1	27	E	N
OCT 7.81	OCT 6.81	800	745	1030	745	1	8.1	1	23119	2	1	94		C
OCT 8.81	OCT 7.81	745	815	745	1800	1	5.8	1	23120	2	1	76		C
OCT 16.81	OCT 15.81	745	730	2400	700	1	1.9	1	23121	2	1	78		
OCT 18.81	OCT 17.81	745	900	700	900	1	11.2	1	23122	2	1	100		
OCT 19.81	OCT 18.81	900	830	900	1400	1	5.0	1	23123	2	1	134	D	N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

REMOVAL DATE	EXPOSURE DATE		VOLUME ML	CONDUCT. UMHO/CM		PH FIELD	PH LAB		TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
AUG 8.81	AUG 7.81		317.	18.5		*****	4.39		0.0684	1.30	0.21
AUG 9.81	AUG 8.81	U	454.	41.0		3.83	4.09		0.1156	4.10	0.31
AUG 11.81	AUG 10.81		26.	*****		*****	3.79		******	*****	*****
AUG 12.81	AUG 11.81		356.	50.0		3.76	3.97		0.1438	5.35	0.33
AUG 14.81	AUG 13.81	U	5.	*****		*****	*****		******	*****	*****
AUG 15.81	AUG 14.81		847.	51.5		*****	4.04		0.1384	5.20	0.67
AUG 16.81	AUG 15.81		1774.	47.9		*****	4.02	U	0.1428	4.55	0.44
AUG 17.81	AUG 16.81	U	20.	*****		*****	*****		******	*****	*****
AUG 25.81	AUG 24.81		53.	*****		*****	3.99		******	10.10	1.33
AUG 28.81	AUG 27.81		109.	*****		*****	3.78		******	8.20	1.87
AUG 29.81	AUG 28.81		213.	60.5		*****	3.89		******	6.40	0.57
AUG 31.81	AUG 30.81		365.	53.0		4.11	4.02	U	0.1462	5.80	0.52
SEP 1.81	AUG 31.81		392.	74.0		3.96	3.80		0.1940	7.35	0.71
SEP 2.81	SEP 1.81		365.	48.4		4.14	4.04		0.1292	4.35	0.54
SEP 3.81	SEP 2.81		248.	96.2		*****	3.67		0.2478	9.00	1.18
SEP 4.81	SEP 3.81	U	7.	*****		*****	*****		******	*****	*****
SEP 5.81	SEP 4.81		1224.	24.4	U	3.47	4.31		0.0768	1.75	0.33
SEP 6.81	SEP 5.81		518.	55.0	U	3.15	3.90		0.1508	5.05	0.51
SEP 9.81	SEP 8.81		1812.	17.6		3.66	4.47		0.0582	1.85	0.11
SEP 10.81	SEP 9.81	U	8.	*****		*****	*****		******	*****	*****
SEP 11.81	SEP 10.81		1672.	22.0		4.46	4.52		0.0610	2.85	0.35
SEP 12.81	SEP 11.81		67.	*****		*****	4.57		******	6.55	1.14
SEP 18.81	SEP 17.81		778.	33.3		4.41	4.18		0.1032	3.60	0.34
SEP 20.81	SEP 19.81		85.	*****		*****	5.65		******	4.70	1.05
SEP 22.81	SEP 21.81		528.	9.0	U	5.55	4.90		0.0400	0.75	0.23
SEP 23.81	SEP 22.81		1008.	9.2		5.05	4.75		******	1.05	0.09
SEP 24.81	SEP 23.81		791.	3.2		5.72	5.49		0.0334	0.40	0.03
SEP 27.81	SEP 26.81		731.	52.0		4.11	3.98		0.1366	5.15	0.60
SEP 28.81	SEP 27.81		369.	13.3		5.05	4.81		0.0454	2.25	0.17
SEP 29.81	SEP 28.81		57.	*****		*****	5.44		******	0.30	0.01
OCT 2.81	OCT 1.81		151.	*****		*****	4.13		******	4.10	0.53
OCT 3.81	OCT 2.81		165.	*****		*****	4.60		******	0.50	0.22
OCT 4.81	OCT 3.81	U	8.	*****		*****	*****		******	*****	*****
OCT 5.81	OCT 4.81		22.	*****		*****	4.43		******	*****	*****
OCT 6.81	OCT 5.81	U	7.	*****		*****	*****		******	*****	*****
OCT 7.81	OCT 6.81		493.	46.5		4.08	3.91		0.1374	4.30	0.64
OCT 8.81	OCT 7.81		285.	9.1		*****	4.80		0.0416	0.60	0.06
OCT 16.81	OCT 15.81		96.	*****		*****	4.00		******	3.15	0.89
OCT 18.81	OCT 17.81		718.	15.6		4.61	4.53		0.0560	1.35	0.16
OCT 19.81	OCT 18.81		432.	25.3		4.38	4.31		0.0794	2.40	0.26

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
AUG 8,81	AUG 7,81	0.05	0.03	0.005	<T 0.010	0.010	0.070	0.0407
AUG 9,81	AUG 8,81	0.05	0.04	0.005	0.010	0.010	0.288	0.0813
AUG 11,81	AUG 10,81	*****	*****	*****	*****	*****	*****	0.1622
AUG 12,81	AUG 11,81	0.03	0.05	0.005	0.020	<T 0.010	0.400	0.1072
AUG 14,81	AUG 13,81	*****	*****	*****	*****	*****	*****	******
AUG 15,81	AUG 14,81	0.18	0.14	0.035	0.040	<T 0.010	0.780	0.0912
AUG 16,81	AUG 15,81	0.13	0.20	0.020	0.020	U 0.160	0.390	0.0955
AUG 17,81	AUG 16,81	*****	*****	*****	*****	*****	*****	******
AUG 25,81	AUG 24,81	*****	0.40	*****	*****	*****	*****	0.1023
AUG 28,81	AUG 27,81	1.48	0.44	0.240	0.060	0.120	0.630	0.1660
AUG 29,81	AUG 28,81	0.23	0.27	0.030	0.020	0.420	0.318	0.1288
AUG 31,81	AUG 30,81	0.16	U 0.36	0.030	0.020	U 0.340	0.470	0.0955
SEP 1,81	AUG 31,81	0.12	0.24	0.020	0.010	0.210	0.450	0.1585
SEP 2,81	SEP 1,81	0.08	0.23	0.015	0.010	0.280	0.278	0.0912
SEP 3,81	SEP 2,81	0.10	0.38	0.025	0.010	0.400	0.660	0.2138
SEP 4,81	SEP 3,81	*****	*****	*****	*****	*****	*****	******
SEP 5,81	SEP 4,81	0.02	0.11	0.005	0.010	0.080	0.112	0.0490
SEP 6,81	SEP 5,81	0.07	0.17	0.010	0.010	0.240	0.208	0.1259
SEP 9,81	SEP 8,81	0.02	0.04	<T 0.005	0.010	0.060	0.142	0.0339
SEP 10,81	SEP 9,81	*****	*****	*****	*****	*****	*****	******
SEP 11,81	SEP 10,81	0.29	0.10	0.050	0.030	U 0.110	0.620	0.0302
SEP 12,81	SEP 11,81	*****	0.75	*****	*****	*****	1.190	0.0269
SEP 18,81	SEP 17,81	0.17	0.15	0.030	0.040	U 0.260	0.344	0.0661
SEP 20,81	SEP 19,81	*****	U 0.76	*****	*****	*****	1.020	0.0022
SEP 22,81	SEP 21,81	0.16	0.12	U 0.020	0.010	U 0.270	0.080	0.0126
SEP 23,81	SEP 22,81	0.14	0.10	0.025	0.030	0.210	*****	0.0178
SEP 24,81	SEP 23,81	0.05	0.11	<T 0.005	0.010	0.260	0.004	0.0032
SEP 27,81	SEP 26,81	0.23	0.19	0.020	0.020	0.240	0.380	0.1047
SEP 28,81	SEP 27,81	0.13	0.22	0.020	0.010	0.640	0.306	0.0155
SEP 29,81	SEP 28,81	*****	0.01	*****	*****	*****	*****	0.0036
OCT 2,81	OCT 1,81	*****	0.10	*****	*****	*****	0.770	0.0741
OCT 3,81	OCT 2,81	*****	0.02	*****	*****	*****	0.006	0.0251
OCT 4,81	OCT 3,81	*****	*****	*****	*****	*****	*****	******
OCT 5,81	OCT 4,81	*****	*****	*****	*****	*****	*****	0.0372
OCT 6,81	OCT 5,81	*****	*****	*****	*****	*****	*****	******
OCT 7,81	OCT 6,81	0.44	0.08	0.010	0.020	0.030	0.490	0.1230
OCT 8,81	OCT 7,81	0.02	<T 0.01	<T 0.005	0.010	0.020	<T 0.002	0.0158
OCT 16,81	OCT 15,81	0.19	0.14	0.025	<T 0.010	0.030	0.358	0.1000
OCT 18,81	OCT 17,81	0.17	0.07	<T 0.005	<T 0.010	0.010	0.096	0.0295
OCT 19,81	OCT 18,81	0.04	0.10	<T 0.005	<T 0.010	0.020	0.304	0.0490

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
OCT 20.81	OCT 19.81	830	900	830	1200	1	0.4	1	23124	2	1	35	E	N
OCT 21.81	OCT 20.81	900	825	1800	2000	1	0.4	1	23125	2	1	54	DE	
OCT 22.81	OCT 21.81	825	800	830	2400	3	5.6	1	23126	2	1	87	C	
OCT 23.81	OCT 22.81	800	800	****	****	1	13.4	1	23127	2	1	113		
OCT 24.81	OCT 23.81	900	1000	900	1145	1	1.8	1	23128	2	1	61		
OCT 26.81	OCT 25.81	800	845	100	845	1	7.8	1	23129	2	1	102		
OCT 27.81	OCT 26.81	845	645	845	645	1	5.2	1	23130	2	1	97		
OCT 28.81	OCT 27.81	645	745	645	1750	1	32.0	1	23131	2	1	102		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

REMOVAL DATE	EXPOSURE DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
OCT 20.81	OCT 19.81	U	9.	*****	*****	*****	******	*****	*****
OCT 21.81	OCT 20.81		14.	*****	*****	*****	******	*****	*****
OCT 22.81	OCT 21.81		313.	67.0	*****	3.91	0.1686	4.75	1.61
OCT 23.81	OCT 22.81		979.	64.2	U 4.14	3.87	0.1720	3.80	1.43
OCT 24.81	OCT 23.81		71.	*****	*****	4.56	******	*****	*****
OCT 26.81	OCT 25.81		514.	8.2	4.74	4.77	0.0414	0.50	0.10
OCT 27.81	OCT 26.81		326.	11.2	*****	4.63	0.0536	0.90	0.20
OCT 28.81	OCT 27.81		2097.	11.3	4.56	4.62	0.0516	0.55	0.16

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11 PAGE : 9

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
OCT 20.81	OCT 19.81	*****	*****	*****	*****	*****	*****	******
OCT 21.81	OCT 20.81	*****	*****	*****	*****	*****	*****	******
OCT 22.81	OCT 21.81	0.84	0.27	0.070	0.080	0.050	0.710	0.1230
OCT 23.81	OCT 22.81	0.11	0.24	0.025	0.030	0.040	0.470	0.1349
OCT 24.81	OCT 23.81	*****	*****	*****	*****	*****	<T 0.002	0.0275
OCT 26.81	OCT 25.81	0.02	0.03	<T 0.005	<T 0.010	0.020	0.004	0.0170
OCT 27.81	OCT 26.81	0.02	0.05	<T 0.005	<T 0.010	<T 0.010	0.216	0.0234
OCT 28.81	OCT 27.81	0.03	0.04	<T 0.005	<T 0.010	<T 0.010	0.020	0.0240

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/SES #11 PAGE : 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
JAN 26.81	JAN 25.81	900	900	****	****	2	****	*	92	2	1	****	CO	C
FEB 2.81	FEB 1.81	900	930	1700	930	1	****	*	93	2	1	****		L
FEB 3.81	FEB 2.81	930	900	930	1500	2	****	*	94	2	1	****	G	
FEB 4.81	FEB 3.81	900	900	****	****	2	****	*	2435	2	1	****	E	
FEB 5.81	FEB 4.81	900	800	****	****	2	****	*	2436	2	1	****	E	
FEB 6.81	FEB 5.81	800	900	****	****	2	****	*	2437	2	1	****	E	
FEB 7.81	FEB 6.81	900	930	****	****	2	****	*	95	2	1	****		L
FEB 9.81	FEB 8.81	900	815	****	****	2	****	*	96	2	1	****		L
FEB 10.81	FEB 9.81	815	900	****	****	2	****	*	97	2	1	****		L
FEB 11.81	FEB 10.81	900	945	****	****	3	****	*	98	2	1	****		L
FEB 12.81	FEB 11.81	900	745	****	****	*	****	*	2449	2	1	****		X
FEB 17.81	FEB 16.81	845	915	****	****	1	****	*	99	2	1	****	G	L
FEB 19.81	FEB 18.81	900	800	****	****	1	****	*	100	2	1	****		L
FEB 20.81	FEB 19.81	800	830	****	****	1	****	*	2451	2	1	****		X
FEB 21.81	FEB 20.81	830	900	****	****	1	****	*	1761	2	1	****		
FEB 24.81	FEB 23.81	830	900	****	****	1	14.0	2	1763	2	1	62	G	
FEB 26.81	FEB 25.81	830	800	****	****	1	0.8	2	1765	2	1	130		N
FEB 28.81	FEB 27.81	830	930	****	****	3	1.5	2	1767	2	1	154		N
MAR 1.81	FEB 28.81	930	900	****	****	1	0.6	2	1769	2	1	172		NM
MAR 4.81	MAR 3.81	900	900	****	****	*	0.2	2	2438	2	1	27	E	N
MAR 5.81	MAR 4.81	900	700	****	****	2	0.2	2	2439	2	1	30	E	N
MAR 7.81	MAR 6.81	900	930	****	****	2	2.5	2	1770	2	1	94		C
MAR 9.81	MAR 8.81	900	800	****	****	2	0.4	2	1772	2	1	179		N
MAR 10.81	MAR 9.81	800	830	****	****	2	0.3	2	2452	2	1	30	E	N
MAR 11.81	MAR 10.81	830	900	****	****	2	1.1	2	1774	2	1	83		
MAR 12.81	MAR 11.81	900	730	****	****	2	0.2	2	2453	2	1	85	E	
MAR 13.81	MAR 12.81	730	900	****	****	2	2.1	2	1776	2	1	85		
MAR 14.81	MAR 13.81	900	930	****	****	2	1.3	2	1778	2	1	51		
MAR 16.81	MAR 15.81	900	845	****	****	3	1.8	2	1780	2	1	97		
MAR 18.81	MAR 17.81	900	900	****	****	2	4.7	2	1782	2	1	63		
MAR 20.81	MAR 19.81	900	845	****	****	2	1.7	2	1784	2	1	81		
MAR 21.81	MAR 20.81	845	900	****	****	2	0.3	2	1786	2	1	67		
MAR 25.81	MAR 24.81	800	815	****	****	3	0.1	2	1788	2	1	237		N
MAR 27.81	MAR 26.81	800	800	****	****	1	0.2	2	1790	2	1	399		N
MAR 31.81	MAR 30.81	830	900	****	****	1	6.0	2	1792	2	1	111		
APR 2.81	APR 1.81	730	730	****	****	1	4.3	2	1794	2	1	112		
APR 4.81	APR 3.81	745	830	****	****	1	2.1	2	1796	2	1	227	H	N
APR 5.81	APR 4.81	830	730	830	730	1	10.9	2	1798	2	1	104	A	
APR 6.81	APR 5.81	730	745	****	800	3	0.7	2	1800	2	1	67		
APR 9.81	APR 8.81	745	745	****	800	1	1.5	2	1802	2	1	135	A	N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/SES #11

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 26.81	JAN 25.81	175.	U 4.6	*****	4.80	******	4.15	0.62
FEB 2.81	FEB 1.81	3075.	23.3	3.81	4.47	0.0640	1.40	0.50
FEB 3.81	FEB 2.81	502.	8.5	4.20	4.85	0.0409	0.60	0.16
FEB 4.81	FEB 3.81	11.	*****	*****	*****	******	*****	*****
FEB 5.81	FEB 4.81	8.	*****	*****	*****	******	*****	*****
FEB 6.81	FEB 5.81	4.	*****	*****	*****	******	*****	*****
FEB 7.81	FEB 6.81	278.	46.6	*****	4.81	0.1348	1.70	1.25
FEB 9.81	FEB 8.81	315.	26.6	*****	4.33	0.0820	0.75	0.80
FEB 10.81	FEB 9.81	73.	*****	*****	4.82	******	3.40	2.56
FEB 11.81	FEB 10.81	2312.	26.1	3.51	4.36	0.0826	1.80	0.44
FEB 12.81	FEB 11.81	382.	*****	5.17	*****	******	*****	*****
FEB 17.81	FEB 16.81	580.	36.5	4.26	4.18	0.1018	2.95	0.73
FEB 19.81	FEB 18.81	230.	*****	*****	3.76	0.2212	5.70	1.83
FEB 20.81	FEB 19.81	2039.	*****	4.22	*****	******	*****	*****
FEB 21.81	FEB 20.81	3025.	7.1	4.40	5.00	0.0390	0.50	0.18
FEB 24.81	FEB 23.81	1439.	20.9	3.99	4.44	0.0674	1.30	0.35
FEB 26.81	FEB 25.81	171.	*****	*****	4.00	******	3.05	1.05
FEB 28.81	FEB 27.81	380.	17.7	4.51	4.78	0.0534	2.85	0.40
MAR 1.81	FEB 28.81	170.	*****	*****	3.59	******	11.50	3.70
MAR 4.81	MAR 3.81	U 9.	*****	*****	*****	******	*****	*****
MAR 5.81	MAR 4.81	U 10.	*****	*****	*****	******	*****	*****
MAR 7.81	MAR 6.81	388.	U 17.4	4.99	5.32	0.0276	0.45	0.12
MAR 9.81	MAR 8.81	118.	*****	*****	U 6.18	******	5.00	0.54
MAR 10.81	MAR 9.81	U 15.	*****	*****	*****	******	*****	*****
MAR 11.81	MAR 10.81	151.	*****	*****	5.24	******	2.40	0.54
MAR 12.81	MAR 11.81	28.	*****	*****	*****	******	*****	*****
MAR 13.81	MAR 12.81	293.	39.0	*****	U 6.02	0.0436	5.95	1.86
MAR 14.81	MAR 13.81	109.	*****	*****	5.18	******	2.55	0.21
MAR 16.81	MAR 15.81	288.	28.8	*****	U 6.78	0.0354	3.75	1.23
MAR 18.81	MAR 17.81	488.	20.0	4.45	4.46	0.0634	0.90	0.83
MAR 20.81	MAR 19.81	226.	*****	*****	5.43	******	1.30	0.34
MAR 21.81	MAR 20.81	33.	*****	*****	4.08	******	*****	*****
MAR 25.81	MAR 24.81	39.	*****	*****	5.12	******	6.90	0.26
MAR 27.81	MAR 26.81	131.	*****	*****	3.57	******	14.00	8.90
MAR 31.81	MAR 30.81	1095.	36.3	4.00	4.15	0.1144	4.20	0.42
APR 2.81	APR 1.81	791.	38.5	4.25	4.49	0.0938	5.60	1.18
APR 4.81	APR 3.81	U 784.	39.6	U 4.58	U 5.40	0.0466	9.80	0.90
APR 5.81	APR 4.81	1868.	34.6	4.19	4.25	0.1034	5.70	0.62
APR 6.81	APR 5.81	78.	*****	*****	U 5.29	******	3.50	0.40
APR 9.81	APR 8.81	332.	71.5	*****	5.05	0.0766	16.20	2.20

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/SES #11

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 26.81	JAN 25.81	0.28	0.38	0.045	0.050	0.210	0.224	0.1000
FEB 2.81	FEB 1.81	0.20	0.60	0.040	0.050	0.320	0.146	0.0339
FEB 3.81	FEB 2.81	0.05	0.06	0.015	0.015	0.040	0.120	0.0141
FEB 4.81	FEB 3.81	*****	*****	*****	*****	*****	*****	******
FEB 5.81	FEB 4.81	*****	*****	*****	*****	*****	*****	******
FEB 6.81	FEB 5.81	*****	*****	*****	*****	*****	*****	******
FEB 7.81	FEB 6.81	0.20	0.57	0.040	0.050	0.170	0.320	0.0977
FEB 9.81	FEB 8.81	0.23	0.32	0.040	0.010	0.080	0.124	0.0468
FEB 10.81	FEB 9.81	1.68	2.07	0.300	0.120	< 0.010	*****	0.0955
FEB 11.81	FEB 10.81	0.20	0.38	0.040	0.040	0.230	0.090	0.0437
FEB 12.81	FEB 11.81	*****	*****	*****	*****	*****	*****	******
FEB 17.81	FEB 16.81	0.37	0.45	0.070	0.030	0.310	0.332	0.0661
FEB 19.81	FEB 18.81	0.51	0.62	0.090	0.100	0.220	0.520	0.1738
FEB 20.81	FEB 19.81	*****	*****	*****	*****	*****	*****	******
FEB 21.81	FEB 20.81	0.06	0.04	<T 0.005	<T 0.010	0.040	0.134	0.0100
FEB 24.81	FEB 23.81	0.14	0.83	0.070	0.020	0.500	0.098	0.0363
FEB 26.81	FEB 25.81	0.29	0.17	0.045	0.080	0.590	0.324	0.1000
FEB 28.81	FEB 27.81	0.80	0.13	0.175	0.030	0.070	0.370	0.0166
MAR 1.81	FEB 28.81	0.67	0.34	0.065	0.070	0.120	1.630	0.2570
MAR 4.81	MAR 3.81	*****	*****	*****	*****	*****	*****	******
MAR 5.81	MAR 4.81	*****	*****	*****	*****	*****	*****	******
MAR 7.81	MAR 6.81	0.24	0.12	0.045	<T 0.010	0.040	0.004	0.0048
MAR 9.81	MAR 8.81	*****	0.66	*****	*****	*****	0.700	U 0.0007
MAR 10.81	MAR 9.81	*****	*****	*****	*****	*****	*****	******
MAR 11.81	MAR 10.81	0.85	0.20	0.180	0.040	0.090	0.360	0.0058
MAR 12.81	MAR 11.81	*****	*****	*****	*****	*****	*****	******
MAR 13.81	MAR 12.81	U 2.41	0.72	U 0.510	0.100	0.310	1.600	U 0.0010
MAR 14.81	MAR 13.81	0.55	0.22	0.115	0.030	0.170	0.360	0.0066
MAR 16.81	MAR 15.81	U 2.00	0.48	U 0.510	0.110	0.310	0.900	U 0.0002
MAR 18.81	MAR 17.81	0.52	0.33	0.140	0.020	0.190	0.169	0.0147
MAR 20.81	MAR 19.81	0.36	0.48	0.275	0.070	0.530	0.014	0.0037
MAR 21.81	MAR 20.81	*****	*****	*****	*****	*****	*****	0.0032
MAR 25.81	MAR 24.81	*****	0.46	*****	*****	*****	*****	0.0076
MAR 27.81	MAR 26.81	*****	2.30	*****	*****	*****	2.050	0.2692
MAR 31.81	MAR 30.81	0.06	0.18	0.040	0.020	0.170	0.420	0.0708
APR 2.81	APR 1.81	1.50	0.28	0.420	0.060	0.150	0.920	0.0324
APR 4.81	APR 3.81	U 3.10	0.56	U 0.700	0.210	0.430	0.890	U 0.0040
APR 5.81	APR 4.81	0.73	0.26	0.120	0.090	0.190	0.700	0.0562
APR 6.81	APR 5.81	*****	0.12	*****	*****	*****	0.550	U 0.0051
APR 9.81	APR 8.81	5.20	U 1.90	1.060	0.380	U 1.080	U 2.200	0.0089

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/SES #11

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
APR 10.81	APR 9.81	745	745	****	****	1	1.7	2	1804	2	1	142		N
APR 11.81	APR 10.81	745	900	****	****	1	3.0	2	2097	2	1	124	D	N
APR 15.81	APR 14.81	745	745	800	****	1	12.5	2	2098	2	1	96		J
APR 17.81	APR 16.81	730	900	1800	800	1	1.6	2	2099	2	1	127	C	NM
APR 18.81	APR 17.81	900	830	****	****	1	9.6	2	2100	2	1	100	GB	
APR 20.81	APR 19.81	900	900	****	****	1	1.0	2	2101	2	1	151	A	N
APR 24.81	APR 23.81	745	745	45	745	1	9.8	2	2102	2	1	106	C	
APR 25.81	APR 24.81	745	900	****	****	1	4.7	2	23001	2	1	123		N
APR 29.81	APR 28.81	745	745	****	****	1	6.5	2	23003	2	1	106	A	
APR 30.81	APR 29.81	745	745	****	****	1	1.1	2	23005	2	1	158		N
MAY 1.81	APR 30.81	745	745	****	****	1	****	2	23007	2	1	****		
NOV 6.81	NOV 5.81	900	900	100	600	1	10.2	2	23132	2	1	63	G	
NOV 7.81	NOV 6.81	900	900	1300	900	3	20.8	2	23134	2	1	89		
NOV 11.81	NOV 10.81	845	830	200	600	3	1.0	2	23136	2	1	133		N
NOV 13.81	NOV 12.81	830	800	2200	2400	*	****	2	23138	2	1	****	E	
NOV 17.81	NOV 16.81	800	745	100	700	1	4.1	2	23140	2	1	118		
NOV 18.81	NOV 17.81	745	830	1000	2400	1	0.8	2	23142	2	1	163		N
NOV 19.81	NOV 18.81	830	720	1300	1700	1	0.5	2	23144	2	1	154		N
NOV 20.81	NOV 19.81	720	815	100	730	1	5.2	2	23146	2	1	104		J
NOV 21.81	NOV 20.81	815	900	1000	900	3	6.6	2	23148	2	1	101		
NOV 22.81	NOV 21.81	900	630	900	2400	3	1.2	2	23150	2	1	92		
NOV 24.81	NOV 23.81	800	915	2200	600	4	****	2	23152	2	1	****		
NOV 27.81	NOV 26.81	800	740	2200	600	1	7.1	2	23154	2	1	109		
DEC 1.81	NOV 30.81	800	900	2400	600	*	****	2	23156	2	1	****		
DEC 2.81	DEC 1.81	900	900	1700	2400	1	0.5	2	23158	2	1	114		
DEC 3.81	DEC 2.81	900	830	930	1700	1	****	2	23160	2	1	****		
DEC 8.81	DEC 7.81	700	700	1830	400	2	2.8	2	23162	2	1	104		J
DEC 9.81	DEC 8.81	700	730	1000	1845	2	2.0	2	23164	2	1	74		
DEC 10.81	DEC 9.81	730	725	745	1930	2	0.6	2	23166	2	1	25		N
DEC 11.81	DEC 10.81	725	725	1000	725	2	2.5	2	23168	2	1	76		CM
DEC 12.81	DEC 11.81	725	800	725	1600	2	0.6	2	23170	2	1	94		
DEC 14.81	DEC 13.81	800	700	2400	600	2	****	2	23172	2	1	****		
DEC 15.81	DEC 14.81	700	700	1800	400	2	****	2	23174	2	1	****		
DEC 20.81	DEC 19.81	900	830	1900	600	2	0.2	2	2317A	2	1	104		
DEC 22.81	DEC 21.81	830	725	2300	725	2	6.4	2	2317B	2	1	74		
DEC 23.81	DEC 22.81	725	900	725	900	2	16.2	2	23180	2	1	97		
DEC 24.81	DEC 23.81	900	930	900	1130	2	2.4	2	23182	2	1	84		
DEC 28.81	DEC 27.81	930	910	1045	1315	2	12.4	2	23184	2	1	89		
DEC 29.81	DEC 28.81	910	920	2010	500	2	8.2	2	23186	2	1	86		
JAN 1.82	DEC 31.81	830	1100	30	1000	3	18.4	2	2318B	2	1	91		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/SES #11 PAGE : 5

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD		PH LAB	TOTAL H+ TO PHA.3 UG/L	SULPHATE MG/L	NITRATE AS N MG/L
APR 10.81	APR 9.81	396.	52.5	3.33		4.08	0.1700	7.75	0.94
APR 11.81	APR 10.81	613.	41.0	3.69		4.33	0.0880	5.55	1.12
APR 15.81	APR 14.81	1968.	20.0	3.46		4.44	0.0704	2.10	0.20
APR 17.81	APR 16.81	334.	32.4	*****	U	6.99	0.0314	5.20	1.00
APR 18.81	APR 17.81	1582.	*****	3.45		4.30	******	4.30	0.63
APR 20.81	APR 19.81	248.	16.5	*****		5.34	0.0360	3.60	0.33
APR 24.81	APR 23.81	1715.	41.0	3.53		4.06	0.1236	4.15	0.74
APR 25.81	APR 24.81	949.	32.4	4.13		4.15	0.1082	2.25	0.52
APR 29.81	APR 28.81	1132.	41.6	4.21		4.16	0.0836	4.35	0.78
APR 30.81	APR 29.81	286.	36.1	*****		4.16	0.1022	3.65	0.40
MAY 1.81	APR 30.81	33.	*****	*****	U	7.14	******	9.05	1.08
NOV 6.81	NOV 5.81	1057.	47.8	4.07		4.00	0.1360	2.95	0.99
NOV 7.81	NOV 6.81	3054.	12.7	4.67		4.54	0.0626	0.90	0.20
NOV 11.81	NOV 10.81	219.	*****	*****		3.90	0.1938	2.60	2.83
NOV 13.81	NOV 12.81	12.	*****	*****		*****	******	*****	*****
NOV 17.81	NOV 16.81	744.	24.5	4.33		4.41	0.0740	1.90	0.48
NOV 18.81	NOV 17.81	215.	*****	*****		3.80	0.2026	4.50	1.72
NOV 19.81	NOV 18.81	127.	*****	*****		3.96	******	5.50	0.27
NOV 20.81	NOV 19.81	894.	23.5	3.38		4.33	0.0760	1.60	0.45
NOV 21.81	NOV 20.81	1100.	50.4	3.21		3.94	0.1452	3.25	1.17
NOV 22.81	NOV 21.81	182.	*****	*****		4.26	******	1.10	0.57
NOV 24.81	NOV 23.81	28.	*****	*****	U	6.97	******	*****	*****
NOV 27.81	NOV 26.81	1274.	41.8	4.16		4.14	0.1264	3.60	0.66
DEC 1.81	NOV 30.81	18.	*****	*****		*****	******	*****	*****
DEC 2.81	DEC 1.81	94.	*****	*****		3.91	******	5.45	0.69
DEC 3.81	DEC 2.81	100.	*****	*****		3.94	******	6.55	1.93
DEC 8.81	DEC 7.81	480.	29.5	3.09		4.23	0.0948	1.30	1.03
DEC 9.81	DEC 8.81	243.	64.5	*****		3.86	0.1780	4.45	1.26
DEC 10.81	DEC 9.81	25.	*****	*****	U	7.02	******	*****	*****
DEC 11.81	DEC 10.81	314.	2.5	*****		5.77	0.0300	0.15	0.04
DEC 12.81	DEC 11.81	93.	*****	*****		5.12	******	0.40	0.06
DEC 14.81	DEC 13.81	15.	*****	*****		*****	******	*****	*****
DEC 15.81	DEC 14.81	23.	*****	*****		3.52	******	*****	*****
DEC 20.81	DEC 19.81	35.	*****	*****	U	7.22	******	1.40	0.45
DEC 22.81	DEC 21.81	786.	23.6	4.20		4.30	0.0860	0.55	0.68
DEC 23.81	DEC 22.81	2588.	19.7	4.24		4.32	0.0906	1.30	0.28
DEC 24.81	DEC 23.81	334.	38.7	*****		4.08	0.1290	3.15	0.37
DEC 28.81	DEC 27.81	1816.	16.8	4.40		4.50	0.0652	0.95	0.33
DEC 29.81	DEC 28.81	1161.	20.9	4.27		4.33	0.0806	0.90	0.56
JAN 1.82	DEC 31.81	2745.	15.0	4.51		4.53	0.0648	0.95	0.31

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/SES #11

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
APR 10.81	APR 9.81	0.91	0.77	0.220	0.110	0.620	1.070	0.0832
APR 11.81	APR 10.81	1.52	0.27	0.325	0.100	0.200	0.810	0.0468
APR 15.81	APR 14.81	0.07	0.17	0.020	0.010	0.160	0.138	0.0363
APR 17.81	APR 16.81	U 3.40	0.26	U 0.600	0.100	0.110	0.800	U 0.0001
APR 18.81	APR 17.81	*****	U 0.71	*****	*****	*****	0.500	0.0501
APR 20.81	APR 19.81	1.05	0.08	0.135	0.040	0.070	0.480	0.0046
APR 24.81	APR 23.81	0.28	0.08	0.050	0.020	0.030	0.460	0.0871
APR 25.81	APR 24.81	0.06	0.02	<T 0.005	0.010	0.010	0.148	0.0708
APR 29.81	APR 28.81	0.42	0.08	0.115	0.040	0.030	0.710	0.0692
APR 30.81	APR 29.81	0.14	0.04	0.025	0.030	0.040	0.400	0.0692
MAY 1.81	APR 30.81	*****	0.93	*****	*****	*****	*****	U 0.0001
NOV 6.81	NOV 5.81	0.18	0.15	0.015	0.020	0.060	0.390	0.1000
NOV 7.81	NOV 6.81	0.03	<T 0.01	<T 0.005	<T 0.010	0.010	0.148	0.0708
NOV 11.81	NOV 10.81	1.06	0.36	0.205	0.040	0.070	0.386	0.1585
NOV 13.81	NOV 12.81	*****	*****	*****	*****	*****	*****	******
NOV 17.81	NOV 16.81	0.24	0.26	0.055	0.020	0.160	0.320	0.0389
NOV 18.81	NOV 17.81	0.15	0.22	0.020	0.030	0.060	0.660	0.1585
NOV 19.81	NOV 18.81	*****	0.02	*****	*****	*****	0.328	0.1096
NOV 20.81	NOV 19.81	0.09	0.02	0.005	<T 0.010	0.020	0.218	0.0468
NOV 21.81	NOV 20.81	0.09	0.09	0.005	0.020	0.030	0.470	0.1148
NOV 22.81	NOV 21.81	0.05	0.02	<T 0.005	<T 0.010	0.020	0.810	0.0550
NOV 24.81	NOV 23.81	*****	*****	*****	*****	*****	*****	U 0.0001
NOV 27.81	NOV 26.81	0.32	0.38	0.060	0.040	0.260	0.352	0.0724
DEC 1.81	NOV 30.81	*****	*****	*****	*****	*****	*****	******
DEC 2.81	DEC 1.81	*****	0.17	*****	*****	*****	0.400	0.1230
DEC 3.81	DEC 2.81	*****	0.52	*****	*****	*****	1.500	0.1148
DEC 8.81	DEC 7.81	0.34	0.13	0.065	0.010	0.050	0.380	0.0589
DEC 9.81	DEC 8.81	0.20	0.19	0.025	0.020	0.070	0.600	0.1380
DEC 10.81	DEC 9.81	*****	*****	*****	*****	*****	*****	U 0.0001
DEC 11.81	DEC 10.81	0.14	<T 0.01	0.015	<T 0.010	0.030	0.004	0.0017
DEC 12.81	DEC 11.81	*****	0.05	*****	*****	*****	0.042	0.0876
DEC 14.81	DEC 13.81	*****	*****	*****	*****	*****	*****	******
DEC 15.81	DEC 14.81	*****	*****	*****	*****	*****	*****	0.3020
DEC 20.81	DEC 19.81	*****	0.71	*****	*****	*****	*****	U 0.0001
DEC 22.81	DEC 21.81	0.17	0.15	0.015	<T 0.010	0.090	0.060	0.0501
DEC 23.81	DEC 22.81	0.02	<T 0.01	<T 0.005	0.010	0.610	0.114	0.0479
DEC 24.81	DEC 23.81	0.05	0.04	<T 0.005	0.010	0.020	0.240	0.0832
DEC 28.81	DEC 27.81	0.07	<T 0.01	<T 0.005	0.010	0.010	0.206	0.0316
DEC 29.81	DEC 28.81	0.05	0.04	<T 0.005	0.010	0.030	0.308	0.0468
JAN 1.82	DEC 31.81	0.22	0.06	0.020	0.030	0.030	0.098	0.0295

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/AEROCHEM #12

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
OCT 26.80	OCT 25.80	800	805	1300	800	1	58.0	1	60	2	1	23		NM
OCT 27.80	OCT 26.80	805	800	930	2300	1	2.0	1	61	2	1	60		
NOV 4.80	OCT 28.80	800	800	1120	800	1	****	*	62	2	1	****		Z
NOV 7.80	NOV 4.80	800	815	1140	120	3	1 .2	1	63	2	1	90		ZL
NOV 8.80	NOV 7.80	800	810	920	310	3	14.1	1	64	2	1	112		L
NOV 10.80	NOV 8.80	810	800	835	1140	1	4.0	1	65	2	1	131		NZ
NOV 14.80	NOV 10.80	800	810	1300	720	1	9.0	1	66	2	1	67	G	Z
NOV 18.80	NOV 14.80	810	800	100	800	2	2.6	1	67	2	1	22		NLZ
NOV 24.80	NOV 18.80	800	800	2115	800	1	3.0	1	68	2	1	92		ZL
NOV 25.80	NOV 24.80	800	800	800	300	1	17.2	1	69	2	1	100		J
NOV 26.80	NOV 25.80	800	800	905	2210	2	2.0	1	70	2	1	132		N
NOV 28.80	NOV 26.80	800	800	2035	700	3	6.0	1	71	2	1	101		LZ
NOV 29.80	NOV 28.80	800	800	800	215	3	10.2	1	72	2	1	102		L
DEC 2.80	NOV 29.80	800	800	1	720	1	3.0	1	73	2	1	95		LZ
DEC 3.80	DEC 2.80	800	800	1210	800	3	33.2	1	74	2	1	80		
DEC 9.80	DEC 8.80	800	800	745	1950	1	12.0	1	75	2	1	115		
DEC 10.80	DEC 9.80	800	800	1905	2130	2	2.2	1	76	2	1	4		N
DEC 13.80	DEC 12.80	800	800	1200	1905	2	6.2	1	77	2	1	61		CL
DEC 27.80	DEC 26.80	800	800	800	100	2	3.2	1	78	2	1	45		N
JAN 2.81	JAN 1.81	800	800	20	410	2	4.0	1	79	2	1	78		L
JAN 7.81	JAN 6.81	800	800	815	330	2	4.3	1	80	2	1	46		N
JAN 10.81	JAN 7.81	800	800	1010	1605	2	****	*	81	2	1	****		ZL
JAN 17.81	JAN 16.81	800	800	800	2300	2	4.0	1	82	2	1	45		N
JAN 23.81	JAN 22.81	800	800	830	800	2	2.1	1	83	2	1	79		L
FEB 2.81	FEB 1.81	800	800	1400	800	3	****	*	84	2	1	****		L
FEB 3.81	FEB 2.81	800	800	800	2100	3	****	*	85	2	1	****	G	M
FEB 7.81	FEB 6.81	800	800	1100	2130	2	****	*	86	2	1	****		L
FEB 9.81	FEB 8.81	800	800	1515	2200	2	****	*	87	2	1	****		L
FEB 11.81	FEB 10.81	800	800	1700	800	3	****	*	88	2	1	****		L
FEB 12.81	FEB 11.81	800	800	800	2330	3	****	*	89	2	1	****	DGH	CM
FEB 17.81	FEB 16.81	800	800	1700	2300	1	****	*	90	2	1	****		L
FEB 20.81	FEB 19.81	800	800	810	800	1	****	*	91	2	1	****		
MAY 6.81	MAY 5.81	800	800	****	****	1	4.2	1	22506	2	1	184	D	CN
MAY 10.81	MAY 9.81	800	800	****	****	1	1.0	1	22507	2	1	65		
MAY 11.81	MAY 10.81	800	800	****	****	1	12.4	1	22508	2	1	102		
MAY 12.81	MAY 11.81	800	800	****	****	1	11.1	1	22509	2	1	101		
MAY 13.81	MAY 12.81	800	800	****	****	1	1.4	1	22510	2	1	78		
MAY 16.81	MAY 15.81	800	800	****	****	1	12.2	1	22512	2	1	27	FI	N
MAY 17.81	MAY 16.81	800	800	****	****	1	4.0	1	22511	2	1	100		
MAY 26.81	MAY 25.81	800	800	****	****	1	2.6	1	22517	2	1	****	E	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/AEROCHEM #12 PAGE : 2

REMOVAL DATE	EXPOSURE DATE		VOLUME ML	CONDUCT. UMHO/CM	PH FIELD		PH LAB		TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L		NITRATE AS N MG/L
OCT 26,80	OCT 25,80		892.	4.4	5.10		4.96		0.0476	0.35		0.06
OCT 27,80	OCT 26,80		78.	*****	*****		5.56		0.0390	*****		*****
NOV 4,80	OCT 28,80		56.	*****	*****		3.92		******	4.50		1.21
NOV 7,80	NOV 4,80		825.	37.0	4.30		4.17		0.1086	2.50		1.05
NOV 8,80	NOV 7,80		1014.	41.8	4.15		4.06		0.1286	3.20		1.35
NOV 10,80	NOV 8,80		336.	28.8	*****		4.25		0.0988	2.80		0.56
NOV 14,80	NOV 10,80		391.	6.2	*****		5.04		******	0.30		0.12
NOV 18,80	NOV 14,80	U	38.	*****	*****		6.78		******	*****		*****
NOV 24,80	NOV 18,80		177.	51.5	*****		3.94		******	3.30		1.18
NOV 25,80	NOV 24,80		1108.	17.5	3.45		4.44		0.0594	1.25		0.29
NOV 26,80	NOV 25,80		170.	16.5	*****		4.38		******	1.10		0.31
NOV 28,80	NOV 26,80		391.	19.2	U	5.75	U	6.68	0.0378	2.40		0.25
NOV 29,80	NOV 28,80		672.	23.5	4.39		4.30		0.0804	1.75		0.51
DEC 2,80	NOV 29,80		183.	*****	*****		3.68		******	6.90		3.30
DEC 3,80	DEC 2,80		1710.	18.5	4.63		4.38		0.0678	1.40		0.33
DEC 9,80	DEC 8,80		889.	28.0	4.30		4.24		0.1124	3.00		0.36
DEC 10,80	DEC 9,80	U	6.	*****	*****		*****		******	*****		*****
DEC 13,80	DEC 12,80		244.	27.0	*****		4.21		0.1124	2.10		0.74
DEC 27,80	DEC 26,80	U	94.	*****	*****		4.02		******	1.60		1.46
JAN 2,81	JAN 1,81		202.	*****	*****		6.82		******	3.20		1.30
JAN 7,81	JAN 6,81	U	129.	*****	*****		4.22		******	1.55		1.22
JAN 10,81	JAN 7,81		46.	*****	*****		U	3.84	******	1.55		0.34
JAN 17,81	JAN 16,81	U	116.	*****	*****		4.37		******	2.50		1.86
JAN 23,81	JAN 22,81		107.	*****	*****		4.24		******	2.65		0.98
FEB 2,81	FEB 1,81		2437.	13.4	U	5.61	U	6.65	0.0236	1.95		0.50
FEB 3,81	FEB 2,81	U	304.	3.4	*****		5.17		0.0308	0.15		0.03
FEB 7,81	FEB 6,81		131.	*****	*****		4.07		******	1.95		1.60
FEB 9,81	FEB 8,81		213.	*****	*****		4.24		******	1.75		1.12
FEB 11,81	FEB 10,81		2181.	26.2	4.37		4.28		0.0788	1.80		0.51
FEB 12,81	FEB 11,81	U	662.	U	6.2	6.05		6.77	******	2.50		0.06
FEB 17,81	FEB 16,81		542.	42.2	4.33		4.27		0.0940	5.15		1.12
FEB 20,81	FEB 19,81		1973.	42.2	4.17		4.07		0.1212	U	3.05	0.77
MAY 6,81	MAY 5,81		498.	U	12.6	4.49		4.49	0.0592	1.75		0.26
MAY 10,81	MAY 9,81		42.	*****	*****		3.87		******	8.05		0.94
MAY 11,81	MAY 10,81		817.	21.4	4.39		4.37		0.0680	2.00		0.44
MAY 12,81	MAY 11,81		722.	15.7	4.44		4.51		0.0572	1.15		0.30
MAY 13,81	MAY 12,81		70.	*****	*****		4.09		******	4.55		0.47
MAY 16,81	MAY 15,81	U	213.	*****	*****		4.05		******	4.05		0.57
MAY 17,81	MAY 16,81		258.	51.5	*****		4.13		0.1268	6.40		0.85
MAY 26,81	MAY 25,81		*****	*****	*****		*****		******	*****		*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/AEROCHEM #12

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
OCT 26,80	OCT 25,80	0.01	< 0.01	0.050	< 0.010	0.040	0.054	0.0110
OCT 27,80	OCT 26,80	*****	*****	*****	*****	*****	0.240	0.0028
NOV 4,80	OCT 28,80	*****	0.26	*****	*****	*****	0.510	0.1202
NOV 7,80	NOV 4,80	0.25	0.23	0.050	0.100	0.095	0.800	0.0676
NOV 8,80	NOV 7,80	0.70	0.23	0.090	0.070	0.055	0.770	0.0871
NOV 10,80	NOV 8,80	0.27	0.22	0.040	0.080	0.110	0.490	0.0562
NOV 14,80	NOV 10,80	< 0.01	0.09	< 0.005	0.010	< 0.010	0.164	0.0091
NOV 18,80	NOV 14,80	*****	*****	*****	*****	*****	*****	0.0002
NOV 24,80	NOV 18,80	0.38	0.50	0.075	0.160	0.240	0.390	0.1148
NOV 25,80	NOV 24,80	0.14	0.08	0.015	0.030	0.060	0.180	0.0363
NOV 26,80	NOV 25,80	0.14	0.10	0.015	0.040	0.090	0.098	0.0417
NOV 28,80	NOV 26,80	0.80	U 1.06	0.175	0.290	0.830	0.730	U 0.0002
NOV 29,80	NOV 28,80	0.11	0.10	0.015	0.020	0.060	0.370	0.0501
DEC 2,80	NOV 29,80	0.95	0.51	0.115	0.130	0.330	1.960	0.2089
DEC 3,80	DEC 2,80	0.18	0.09	0.030	0.020	0.030	0.154	0.0417
DEC 9,80	DEC 8,80	0.14	0.14	0.035	0.030	0.110	0.272	0.0575
DEC 10,80	DEC 9,80	*****	*****	*****	*****	*****	*****	******
DEC 13,80	DEC 12,80	0.35	0.36	0.065	0.100	0.190	0.380	0.0617
DEC 27,80	DEC 26,80	*****	0.81	*****	*****	*****	*****	0.0955
JAN 2,81	JAN 1,81	2.70	1.35	0.575	0.170	0.820	0.400	0.0002
JAN 7,81	JAN 6,81	*****	0.37	*****	*****	*****	0.144	0.0603
JAN 10,81	JAN 7,81	*****	*****	*****	*****	*****	*****	U 0.1445
JAN 17,81	JAN 16,81	*****	1.06	*****	*****	*****	0.292	0.0427
JAN 23,81	JAN 22,81	*****	0.63	*****	*****	*****	0.250	0.0575
FEB 2,81	FEB 1,81	U 1.25	0.18	U 0.390	0.010	0.100	0.160	U 0.0002
FEB 3,81	FEB 2,81	0.02	0.03	< 0.005	< 0.010	0.010	0.024	0.0068
FEB 7,81	FEB 6,81	0.48	1.03	0.065	0.030	0.490	U 0.720	0.0851
FEB 9,81	FEB 8,81	0.66	0.47	0.085	0.030	U 0.240	0.268	0.0575
FEB 11,81	FEB 10,81	0.20	0.29	0.020	0.020	0.190	0.116	0.0525
FEB 12,81	FEB 11,81	U 0.51	0.21	U 0.080	0.130	0.250	0.162	0.0002
FEB 17,81	FEB 16,81	1.50	0.91	0.280	0.050	0.840	0.860	0.0537
FEB 20,81	FEB 19,81	0.15	0.16	0.020	0.010	0.090	0.350	0.0951
MAY 6,81	MAY 5,81	0.29	0.15	0.030	0.050	0.090	0.226	0.0324
MAY 10,81	MAY 9,81	*****	0.53	*****	*****	*****	*****	0.1349
MAY 11,81	MAY 10,81	0.15	0.22	0.015	0.080	0.130	0.376	0.0427
MAY 12,81	MAY 11,81	0.10	0.15	0.010	0.040	0.080	0.156	0.0309
MAY 13,81	MAY 12,81	*****	0.20	*****	*****	*****	*****	0.0813
MAY 16,81	MAY 15,81	0.17	0.09	0.035	0.010	0.020	0.200	0.0891
MAY 17,81	MAY 16,81	*****	0.36	*****	*****	*****	1.200	0.0741
MAY 26,81	MAY 25,81	*****	*****	*****	*****	*****	*****	******

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/AEROCHEM #12 PAGE : 4

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
MAY 28.81	MAY 27.81	800	800	****	****	1	33.0	1	22518	2	1	95	A	
MAY 30.81	MAY 29.81	800	800	****	****	1	8.0	1	22519	2	1	101	GH	
MAY 31.81	MAY 30.81	800	800	****	****	1	1.6	1	22520	2	1	50		
JUN 4.81	JUN 3.81	800	800	****	****	1	4.8	1	22521	2	1	105	GH	
JUN 5.81	JUN 4.81	800	800	****	****	1	7.4	1	22522	2	1	78		
JUN 6.81	JUN 5.81	800	800	****	****	1	8.4	1	22523	2	1	108		
JUN 7.81	JUN 6.81	800	800	****	****	1	1.6	1	22524	2	1	194	C	N
JUN 9.81	JUN 8.81	800	800	****	****	1	8.6	1	22525	2	1	68		
JUN 13.81	JUN 12.81	800	800	1515	1520	1	3.0	1	22526	2	1	62		
JUN 15.81	JUN 14.81	800	800	2000	****	1	3.0	1	22527	2	1	65		
JUN 16.81	JUN 15.81	800	800	2130	800	1	1.2	1	22528	2	1	67		
JUN 17.81	JUN 16.81	800	800	****	****	1	0.3	1	22529	2	1	****	E	
JUN 18.81	JUN 17.81	800	800	****	1505	1	2.2	1	22530	2	1	78		
JUN 22.81	JUN 21.81	800	800	730	740	1	14.3	1	22531	2	1	94	HG	
JUN 23.81	JUN 22.81	800	800	1550	1615	1	30.2	1	22532	2	1	100		
JUN 26.81	JUN 25.81	800	800	710	716	1	2.2	1	22533	2	1	67		
JUN 27.81	JUN 26.81	800	800	****	****	1	4.2	1	22534	2	1	105	C	CML
JUN 28.81	JUN 27.81	800	800	1415	1420	1	0.2	1	22536	2	1	****	E	
JUL 1.81	JUN 30.81	800	800	****	****	1	2.0	1	22535	2	1	92		
JUL 10.81	JUL 9.81	800	800	5	1815	1	9.8	1	22537	2	1	95	AC	
JUL 18.81	JUL 17.81	800	800	1900	1915	1	4.8	1	22538	2	1	145		CN
JUL 21.81	JUL 20.81	800	800	1510	1535	1	22.0	1	22539	2	1	98		
JUL 29.81	JUL 28.81	800	800	1800	1945	1	24.0	1	22540	2	1	92	EG	
JUL 30.81	JUL 29.81	800	1000	1710	1730	1	****	*	22541	2	1	****		C
AUG 5.81	AUG 4.81	800	800	2315	2320	1	7.4	1	22542	2	1	****	FEK	
AUG 8.81	AUG 7.81	800	800	715	740	1	11.2	1	22543	2	1	94		
AUG 9.81	AUG 8.81	800	800	2115	2135	1	9.8	1	22544	2	1	99		
AUG 11.81	AUG 10.81	800	800	****	****	1	1.1	1	22545	2	1	95		
AUG 14.81	AUG 13.81	800	800	815	825	1	8.2	1	22546	2	1	95		
AUG 15.81	AUG 14.81	800	800	315	325	1	16.0	1	22547	2	1	102		
AUG 16.81	AUG 15.81	800	800	1410	1420	1	29.0	1	22548	2	1	103		
AUG 23.81	AUG 22.81	800	800	2300	2305	1	1.8	1	22549	2	1	49		N
AUG 29.81	AUG 28.81	800	800	730	735	1	5.2	1	22550	2	1	99		
AUG 31.81	AUG 30.81	800	800	****	****	1	6.6	1	22551	2	1	106	C	
SEP 1.81	AUG 31.81	800	800	810	825	1	2.0	1	22552	2	1	69		
SEP 2.81	SEP 1.81	800	800	720	745	1	3.6	1	22553	2	1	97	B	L
SEP 3.81	SEP 2.81	800	800	1145	1210	1	6.2	1	22554	2	1	82		
SEP 4.81	SEP 3.81	800	800	803	805	1	0.2	1	22555	2	1	****	KE	
SEP 5.81	SEP 4.81	800	800	650	700	1	9.2	1	22556	2	1	88		
SEP 6.81	SEP 5.81	800	800	2110	2130	1	3.8	1	22557	2	1	83		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/AEROCHEM #12

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
MAY 28.81	MAY 27.81	2018.	41.6	3.95	4.07	0.1212	4.55	6.44
MAY 30.81	MAY 29.81	521.	26.2	4.11	4.27	0.0804	2.85	0.39
MAY 31.81	MAY 30.81	52.	*****	*****	3.92	******	7.35	1.14
JUN 4.81	JUN 3.81	326.	57.5	*****	3.89	0.1610	5.95	0.58
JUN 5.81	JUN 4.81	372.	20.3	4.26	4.45	0.0738	2.15	0.27
JUN 6.81	JUN 5.81	582.	28.4	4.30	4.50	0.0664	3.90	0.88
JUN 7.81	JUN 6.81	199.	*****	*****	U 6.19	******	U 2.15	U 0.25
JUN 9.81	JUN 8.81	375.	56.5	3.83	3.94	0.1508	5.85	0.90
JUN 13.81	JUN 12.81	120.	*****	*****	4.00	******	6.60	0.50
JUN 15.81	JUN 14.81	125.	*****	*****	3.80	******	7.85	0.87
JUN 16.81	JUN 15.81	52.	*****	*****	4.22	******	2.85	0.99
JUN 17.81	JUN 16.81	*****	*****	*****	*****	******	*****	*****
JUN 18.81	JUN 17.81	110.	*****	*****	4.22	******	3.65	0.45
JUN 22.81	JUN 21.81	863.	49.6	4.02	4.00	0.1312	5.65	0.56
JUN 23.81	JUN 22.81	1942.	20.9	4.20	4.32	0.0720	2.00	0.20
JUN 26.81	JUN 25.81	95.	*****	*****	4.18	******	4.40	U 0.81
JUN 27.81	JUN 26.81	285.	25.0	*****	U 7.21	0.0468	1.40	0.05
JUN 28.81	JUN 27.81	*****	*****	*****	*****	******	*****	*****
JUL 1.81	JUN 30.81	119.	*****	*****	3.73	******	11.80	1.25
JUL 10.81	JUL 9.81	600.	12.4	4.46	4.91	0.0432	2.00	0.19
JUL 18.81	JUL 17.81	448.	U 37.5	4.10	4.35	0.0736	2.70	0.48
JUL 21.81	JUL 20.81	1388.	24.0	4.09	4.31	0.0762	2.25	0.12
JUL 29.81	JUL 28.81	1420.	*****	*****	*****	******	*****	*****
JUL 30.81	JUL 29.81	366.	U 6.8	4.82	5.26	0.0640	0.50	0.09
AUG 5.81	AUG 4.81	*****	*****	*****	*****	******	*****	*****
AUG 8.81	AUG 7.81	682.	9.6	4.53	4.77	0.0432	0.75	0.10
AUG 9.81	AUG 8.81	627.	35.4	3.91	4.18	0.0986	4.00	0.33
AUG 11.81	AUG 10.81	67.	*****	*****	3.77	******	7.50	1.22
AUG 14.81	AUG 13.81	502.	32.6	*****	4.26	0.0966	3.85	0.40
AUG 15.81	AUG 14.81	1056.	54.5	*****	4.01	0.1424	5.70	0.77
AUG 16.81	AUG 15.81	1929.	43.5	*****	4.04	0.1298	3.95	0.40
AUG 23.81	AUG 22.81	U 57.	*****	*****	3.84	******	6.50	0.93
AUG 29.81	AUG 28.81	331.	88.5	*****	3.73	0.2226	8.05	0.91
AUG 31.81	AUG 30.81	449.	36.0	4.31	4.28	0.0878	4.50	0.37
SEP 1.81	AUG 31.81	89.	*****	*****	3.94	******	4.60	0.73
SEP 2.81	SEP 1.81	226.	*****	*****	U 5.72	******	U 8.00	0.84
SEP 3.81	SEP 2.81	327.	52.5	*****	3.97	0.1424	4.35	0.59
SEP 4.81	SEP 3.81	*****	*****	*****	*****	******	*****	*****
SEP 5.81	SEP 4.81	522.	23.2	3.53	4.33	0.0754	1.55	0.40
SEP 6.81	SEP 5.81	204.	*****	*****	3.77	0.1768	6.85	0.50

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/AEROCHEM #12

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L		CHLORIDE MG/L		MAGNESIM MG/L		POTASSIM MG/L		SODIUM MG/L		AMMONIUM AS N MG/L		FREE H+ LAB MG/L	
MAY 28.81	MAY 27.81	0.15		0.25		0.020		0.040		0.070		0.510		0.0851	
MAY 30.81	MAY 29.81	0.19		U 0.29		0.065		0.070		U 0.220		0.274		0.0537	
MAY 31.81	MAY 30.81	*****		0.37		*****		*****		*****		*****		0.1202	
JUN 4.81	JUN 3.81	0.22		0.26		0.030		0.090		0.180		0.308		0.1288	
JUN 5.81	JUN 4.81	0.15		0.26		0.030		0.040		0.280		0.260		0.0355	
JUN 6.81	JUN 5.81	0.91		0.19		0.170		0.050		0.030		0.880		0.0316	
JUN 7.81	JUN 6.81	0.80		0.31		0.075		0.200		0.230		0.360		U 0.0006	
JUN 9.81	JUN 8.81	0.34		0.24		0.065		0.050		0.070		0.810		0.1148	
JUN 13.81	JUN 12.81	0.16		0.16		0.030		0.040		0.050		0.910		0.1000	
JUN 15.81	JUN 14.81	0.21		0.28		U 0.030		0.050		0.120		0.730		0.1585	
JUN 16.81	JUN 15.81	*****		0.46		*****		*****		*****		*****		0.0603	
JUN 17.81	JUN 16.81	*****		*****		*****		*****		*****		*****		*****	
JUN 18.81	JUN 17.81	0.34		0.27		0.070		0.060		0.130		0.370		0.0603	
JUN 22.81	JUN 21.81	0.24		0.14		0.030		0.030		0.060		0.770		0.1000	
JUN 23.81	JUN 22.81	0.04		0.02		<T 0.005		<T 0.010		0.020		0.198		0.0479	
JUN 26.81	JUN 25.81	*****		U 0.57		*****		*****		*****		0.590		0.0661	
JUN 27.81	JUN 26.81	0.23		0.17		U 0.320		0.470		0.080		U 2.450		U 0.0001	
JUN 28.81	JUN 27.81	*****		*****		*****		*****		*****		*****		*****	
JUL 1.81	JUN 30.81	0.96		0.60		0.205		0.150		0.220		1.220		0.1862	
JUL 10.81	JUL 9.81	0.25		0.12		0.060		0.040		<T 0.010		0.430		0.0123	
JUL 18.81	JUL 17.81	0.61		0.16		0.100		0.040		0.040		0.176		0.0447	
JUL 21.81	JUL 20.81	0.04		0.04		0.005		0.010		0.010		0.114		0.0490	
JUL 29.81	JUL 28.81	*****		*****		*****		*****		*****		*****		*****	
JUL 30.81	JUL 29.81	0.13		0.07		0.015		0.020		0.030		0.078		0.0055	
AUG 5.81	AUG 4.81	*****		*****		*****		*****		*****		*****		*****	
AUG 8.81	AUG 7.81	0.04		0.05		0.005		0.010		0.030		0.076		0.0170	
AUG 9.81	AUG 8.81	0.06		0.05		0.010		<T 0.010		0.020		0.450		0.0661	
AUG 11.81	AUG 10.81	*****		0.30		*****		*****		*****		*****		0.1698	
AUG 14.81	AUG 13.81	0.41		0.14		0.080		0.070		0.060		0.470		0.0550	
AUG 15.81	AUG 14.81	0.29		0.16		U 0.060		0.050		0.050		0.910		0.0977	
AUG 16.81	AUG 15.81	0.05		0.10		0.010		0.020		0.040		0.270		0.0912	
AUG 23.81	AUG 22.81	*****		0.25		*****		*****		*****		*****		0.1445	
AUG 29.81	AUG 28.81	0.38		0.23		0.060		0.030		0.060		0.400		0.1862	
AUG 31.81	AUG 30.81	0.48		0.18		U 0.140		0.060		0.090		0.480		0.0525	
SEP 1.81	AUG 31.81	*****		0.29		*****		*****		*****		*****		0.1148	
SEP 2.81	SEP 1.81	U 0.96		0.54		0.135		U 2.100		0.260		U 1.950		U 0.0019	
SEP 3.81	SEP 2.81	0.10		0.20		0.025		0.020		0.080		0.306		0.1072	
SEP 4.81	SEP 3.81	*****		*****		*****		*****		*****		*****		*****	
SEP 5.81	SEP 4.81	0.08		0.19		0.020		0.030		0.080		0.152		0.0468	
SEP 6.81	SEP 5.81	0.11		0.25		0.025		0.050		0.090		0.370		0.1698	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/AEROCHEM #12

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
SEP 7.81	SEP 6.81	800	800	200	210	1	0.2	1	22558	2	1	****	KE	
SEP 9.81	SEP 8.81	800	800	1915	1925	1	16.0	1	22559	2	1	99		
SEP 10.81	SEP 9.81	800	800	745	750	1	5.0	1	22560	2	1	98		
SEP 11.81	SEP 10.81	800	800	1430	1450	1	16.8	1	22561	2	1	108		
SEP 12.81	SEP 11.81	800	800	1605	1608	1	0.8	1	22562	2	1	****	KE	
SEP 17.81	SEP 16.81	800	800	****	****	1	1.4	1	22563	2	1	31		N
SEP 18.81	SEP 17.81	800	800	1605	1610	1	9.6	1	22564	2	1	96		
SEP 20.81	SEP 19.81	800	800	2100	2110	1	2.4	1	22565	2	1	79	D	
SEP 22.81	SEP 21.81	800	800	655	715	1	9.8	1	22566	2	1	87	A	J
SEP 23.81	SEP 22.81	800	800	310	325	1	16.2	1	22567	2	1	99		
SEP 24.81	SEP 23.81	800	800	1710	1725	1	18.6	1	22568	2	1	94		
SEP 27.81	SEP 26.81	800	800	2105	2125	1	8.0	1	22569	2	1	85		
SEP 28.81	SEP 27.81	800	800	1110	1120	1	9.6	1	22570	2	1	103		
OCT 2.81	OCT 1.81	800	800	1850	1900	1	3.0	1	22571	2	1	51	DB	
OCT 3.81	OCT 2.81	800	800	1615	1620	1	3.0	1	22572	2	1	46		N
OCT 7.81	OCT 6.81	800	800	1305	1315	1	8.0	1	22573	2	1	92	AB	
OCT 8.81	OCT 7.81	800	800	1715	1730	1	6.2	1	22574	2	1	69		
OCT 16.81	OCT 15.81	800	800	115	120	1	3.8	1	22575	2	1	65		
OCT 18.81	OCT 17.81	800	800	740	750	1	11.0	1	22576	2	1	92		
OCT 19.81	OCT 18.81	800	800	1245	1300	1	6.4	1	22577	2	1	91		
OCT 20.81	OCT 19.81	800	800	1145	1205	1	1.2	1	22578	2	1	50	D	
OCT 22.81	OCT 21.81	800	800	610	615	3	7.4	1	22579	2	1	100	C	
OCT 23.81	OCT 22.81	800	800	2050	2100	1	11.8	1	22580	2	1	108	C	
OCT 24.81	OCT 23.81	800	800	915	920	1	3.4	1	22581	2	1	77		
OCT 26.81	OCT 25.81	800	800	635	800	1	9.6	1	22582	2	1	101		C
OCT 27.81	OCT 26.81	800	800	730	750	1	12.4	1	22583	2	1	92		
OCT 28.81	OCT 27.81	800	800	1845	900	1	27.2	1	22584	2	1	108	HG	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/AEROCHEM #12

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
SEP 7.81	SEP 6.81	*****	*****	*****	*****	******	*****	*****
SEP 9.81	SEP 8.81	1017.	22.0	3.56	4.37	0.0722	2.35	0.16
SEP 10.81	SEP 9.81	317.	40.5	*****	4.29	0.0910	4.70	0.98
SEP 11.81	SEP 10.81	1109.	22.7	4.46	4.44	0.0772	2.75	0.37
SEP 12.81	SEP 11.81	*****	*****	*****	*****	******	*****	*****
SEP 17.81	SEP 16.81	U 20.	*****	*****	3.93	******	*****	*****
SEP 18.81	SEP 17.81	596.	43.8	4.11	4.04	0.1234	4.50	0.46
SEP 20.81	SEP 19.81	122.	*****	*****	4.44	******	3.85	0.97
SEP 22.81	SEP 21.81	550.	10.7	U 5.02	4.62	0.0582	0.75	0.18
SEP 23.81	SEP 22.81	1030.	7.7	4.94	4.86	0.0396	0.75	0.05
SEP 24.81	SEP 23.81	1121.	4.9	4.92	4.90	0.0404	0.40	0.03
SEP 27.81	SEP 26.81	437.	80.8	3.91	3.88	0.2004	U 8.30	U 0.99
SEP 28.81	SEP 27.81	638.	11.8	4.82	4.59	0.0528	1.30	0.09
OCT 2.81	OCT 1.81	99.	*****	*****	U 6.86	******	5.10	U 0.01
OCT 3.81	OCT 2.81	U 89.	*****	*****	U 5.30	******	*****	*****
OCT 7.81	OCT 6.81	474.	22.8	U 5.37	U 6.47	0.0634	3.65	<T 0.01
OCT 8.81	OCT 7.81	277.	6.5	*****	5.14	0.0316	0.70	0.89
OCT 16.81	OCT 15.81	125.	*****	*****	3.90	******	3.75	1.59
OCT 18.81	OCT 17.81	654.	10.6	4.89	4.72	0.0478	1.30	0.13
OCT 19.81	OCT 18.81	377.	35.4	4.22	4.17	0.1040	3.50	0.39
OCT 20.81	OCT 19.81	39.	*****	*****	4.12	******	1.50	1.31
OCT 22.81	OCT 21.81	476.	62.2	3.98	3.96	0.1490	4.60	1.52
OCT 23.81	OCT 22.81	824.	69.9	3.91	3.86	0.1764	4.80	1.59
OCT 24.81	OCT 23.81	168.	*****	*****	4.55	******	0.85	0.16
OCT 26.81	OCT 25.81	625.	5.6	4.96	5.04	0.0392	0.35	0.06
OCT 27.81	OCT 26.81	732.	5.3	U 5.34	U 5.38	0.0288	U 0.55	0.10
OCT 28.81	OCT 27.81	1888.	12.0	4.60	4.57	0.0646	0.65	0.19

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/AEROCHEM #12

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
SEP 7.81	SEP 6.81	*****	*****	*****	*****	*****	*****	******
SEP 9.81	SEP 8.81	0.02	0.05	<T 0.005	0.010	0.010	0.224	0.0427
SEP 10.81	SEP 9.81	0.47	0.19	0.105	0.080	0.020	1.260	0.0513
SEP 11.81	SEP 10.81	0.21	0.13	0.045	0.040	0.020	0.540	0.0363
SEP 12.81	SEP 11.81	*****	*****	*****	*****	*****	*****	******
SEP 17.81	SEP 16.81	*****	*****	*****	*****	*****	*****	0.1175
SEP 18.81	SEP 17.81	0.21	0.17	0.045	0.050	0.100	0.370	0.0912
SEP 20.81	SEP 19.81	0.75	0.32	0.145	0.070	0.110	1.030	0.0363
SEP 22.81	SEP 21.81	0.06	0.05	0.005	0.010	0.010	0.112	0.0240
SEP 23.81	SEP 22.81	0.07	0.05	0.020	0.010	0.020	0.032	0.0138
SEP 24.81	SEP 23.81	0.04	0.02	<T 0.005	0.010	0.010	0.008	0.0126
SEP 27.81	SEP 26.81	U 0.54	0.29	U 0.080	0.070	0.110	U 0.770	0.1585
SEP 28.81	SEP 27.81	0.04	0.03	0.015	0.020	0.020	0.192	0.0257
OCT 2.81	OCT 1.81	*****	U 0.73	*****	*****	*****	0.456	U 0.0001
OCT 3.81	OCT 2.81	*****	*****	*****	*****	*****	U 0.470	U 0.0050
OCT 7.81	OCT 6.81	0.55	0.43	0.140	U 6.600	0.080	0.010	U 0.0003
OCT 8.81	OCT 7.81	0.18	0.18	0.030	0.020	0.090	0.060	0.0072
OCT 16.81	OCT 15.81	0.35	0.39	0.060	0.090	0.170	0.640	0.1259
OCT 18.81	OCT 17.81	0.22	0.11	0.030	0.030	0.070	0.080	0.0191
OCT 19.81	OCT 18.81	0.09	0.15	0.005	0.030	0.050	0.400	0.0676
OCT 20.81	OCT 19.81	*****	0.54	*****	*****	*****	*****	0.0759
OCT 22.81	OCT 21.81	0.75	0.27	0.100	0.080	0.080	0.700	0.1096
OCT 23.81	OCT 22.81	0.40	0.27	0.035	0.040	0.050	0.550	0.1380
OCT 24.81	OCT 23.81	0.05	0.05	<T 0.005	<T 0.010	0.020	0.018	0.0282
OCT 26.81	OCT 25.81	0.04	0.08	<T 0.005	0.010	0.050	0.020	0.0091
OCT 27.81	OCT 26.81	0.02	0.05	<T 0.005	<T 0.010	0.020	0.268	U 0.0042
OCT 28.81	OCT 27.81	0.06	0.04	<T 0.005	0.010	0.030	0.022	0.0269

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/SES #12

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
FEB 21.81	FEB 20.81	800	800	****	300	1	14.8	2	1605	2	1	110		
FEB 24.81	FEB 23.81	800	800	1030	300	1	24.6	2	1606	2	1	26		NC
FEB 25.81	FEB 24.81	800	800	100	800	1	****	*	1607	2	1	****		
FEB 26.81	FEB 25.81	800	800	1045	1400	1	1.6	2	1608	2	1	117		
MAR 1.81	FEB 28.81	800	800	815	100	3	6.2	2	2448	2	1	0	EG	N
MAR 3.81	MAR 2.81	800	800	800	2000	2	7.8	2	1609	2	1	17		N
MAR 7.81	MAR 6.81	800	800	1430	300	2	4.8	2	1610	2	1	65		
MAR 10.81	MAR 9.81	800	800	800	800	3	0.8	2	1611	2	1	41		N
MAR 11.81	MAR 10.81	800	800	500	800	2	2.2	2	1612	2	1	61		
MAR 13.81	MAR 12.81	800	800	****	300	3	2.4	2	1613	2	1	64		
MAR 14.81	MAR 13.81	800	800	****	2100	2	2.4	2	1614	2	1	37		N
MAR 16.81	MAR 15.81	800	800	****	700	2	2.2	2	1615	2	1	35		N
MAR 18.81	MAR 17.81	800	800	****	730	2	5.2	2	1617	2	1	30		N
MAR 20.81	MAR 19.81	800	800	****	500	2	7.0	2	1618	2	1	25		N
MAR 27.81	MAR 26.81	800	800	****	600	1	7.2	2	1619	2	1	10		HN
MAR 31.81	MAR 30.81	800	800	10	2150	1	5.0	2	1620	2	1	104		
APR 2.81	APR 1.81	800	800	1400	2200	1	7.6	2	1621	2	1	93		
APR 4.81	APR 3.81	800	800	****	800	1	****	*	1622	2	1	****		
APR 5.81	APR 4.81	800	800	****	800	1	11.2	2	1623	2	1	101		
APR 6.81	APR 5.81	800	800	****	800	2	****	*	1624	2	1	****		
APR 9.81	APR 8.81	800	800	****	800	1	2.2	2	1625	2	1	89		
APR 10.81	APR 9.81	900	800	****	****	1	3.4	2	1626	2	1	70	A	
APR 11.81	APR 10.81	800	800	****	****	1	4.4	2	2124	2	1	97	G	
APR 15.81	APR 14.81	800	800	****	****	1	12.0	2	2125	2	1	94	A	
APR 18.81	APR 17.81	800	800	****	****	1	9.0	2	2126	2	1	114		
APR 19.81	APR 18.81	800	800	****	****	1	0.6	2	2127	2	1	119	G	
APR 24.81	APR 23.81	800	800	****	****	1	4.6	2	22501	2	1	113	D	
APR 25.81	APR 24.81	800	800	****	****	1	8.8	2	22502	2	1	109		
APR 26.81	APR 25.81	800	800	****	****	1	0.2	2	22503	2	1	573	AB	N
APR 29.81	APR 28.81	800	800	****	****	1	10.0	2	22504	2	1	56	ACDR	CN
APR 30.81	APR 29.81	800	800	****	****	1	1.8	2	22505	2	1	17	GC	N
NOV 6.81	NOV 5.81	800	800	905	920	1	8.2	2	22585	2	1	40		N
NOV 7.81	NOV 6.81	800	800	2000	2005	3	19.0	2	22586	2	1	59		
NOV 8.81	NOV 7.81	800	800	800	805	2	1.0	2	22587	2	1	70		
NOV 12.81	NOV 11.81	800	800	1300	1305	3	0.6	2	22588	2	1	178		N
NOV 17.81	NOV 16.81	800	800	2005	2015	1	4.8	2	22589	2	1	114		
NOV 18.81	NOV 17.81	800	800	800	805	1	1.0	2	22590	2	1	127		N
NOV 19.81	NOV 18.81	800	800	1810	1815	1	0.2	2	22591	2	1	362		N
NOV 20.81	NOV 19.81	800	800	640	650	1	1.0	2	22592	2	1	94		
NOV 21.81	NOV 20.81	800	800	805	810	3	10.2	2	22593	2	1	103		J

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/SES #12

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 UG/L	SULPHATE MG/L	NITRATE AS N MG/L
FEB 21.81	FEB 20.81	2691.	8.6	4.34	4.83	0.0392	0.70	0.17
FEB 24.81	FEB 23.81	1053.	U 1.9	U 5.44	U 5.52	0.0284	<T 0.05	<T 0.02
FEB 25.81	FEB 24.81	58.	*****	*****	3.40	******	*****	*****
FEB 26.81	FEB 25.81	388.	62.0	*****	3.88	0.1692	2.50	1.72
MAR 1.81	FEB 28.81	U 4.	*****	*****	*****	******	*****	*****
MAR 3.81	MAR 2.81	U 223.	68.0	*****	3.93	******	6.25	1.20
MAR 7.81	MAR 6.81	430.	5.2	5.18	5.33	0.0322	0.35	0.32
MAR 10.81	MAR 9.81	U 55.	*****	*****	4.04	******	*****	*****
MAR 11.81	MAR 10.81	222.	*****	*****	4.51	0.0632	2.70	0.46
MAR 13.81	MAR 12.81	253.	39.4	*****	4.72	0.0668	5.60	1.71
MAR 14.81	MAR 13.81	U 146.	*****	*****	4.96	******	2.25	0.19
MAR 16.81	MAR 15.81	U 127.	*****	*****	U 6.97	******	4.85	1.69
MAR 18.81	MAR 17.81	U 260.	24.1	*****	U 6.93	0.0286	2.30	0.73
MAR 20.81	MAR 19.81	U 295.	10.6	*****	4.83	0.0399	0.65	0.27
MAR 27.81	MAR 26.81	U 120.	*****	*****	3.45	******	20.00	8.60
MAR 31.81	MAR 30.81	856.	28.8	4.47	4.68	0.0672	5.70	0.61
APR 2.81	APR 1.81	1166.	49.9	4.16	4.31	0.1056	U 0.15	1.16
APR 4.81	APR 3.81	478.	47.4	3.98	4.79	0.0762	12.00	1.00
APR 5.81	APR 4.81	1866.	30.5	3.83	4.29	0.0940	4.75	0.54
APR 6.81	APR 5.81	57.	*****	*****	4.59	******	*****	*****
APR 9.81	APR 8.81	322.	60.0	*****	U 6.64	0.0436	13.50	1.90
APR 10.81	APR 9.81	391.	50.0	3.25	4.02	0.1480	7.20	0.94
APR 11.81	APR 10.81	705.	47.6	3.62	4.13	U 0.1172	5.05	1.01
APR 15.81	APR 14.81	1866.	15.6	U 4.06	U 4.74	0.0458	2.00	0.22
APR 18.81	APR 17.81	1684.	25.0	3.91	4.78	0.0474	4.20	0.75
APR 19.81	APR 18.81	118.	*****	*****	U 6.79	******	6.50	0.62
APR 24.81	APR 23.81	856.	40.7	4.32	4.26	0.0994	5.15	1.02
APR 25.81	APR 24.81	1583.	31.2	4.21	4.18	0.0972	2.20	0.49
APR 26.81	APR 25.81	188.	*****	*****	4.68	******	3.20	0.25
APR 29.81	APR 28.81	932.	59.5	U 6.83	U 7.24	0.0768	5.70	0.64
APR 30.81	APR 29.81	U 29.	*****	*****	4.89	******	5.60	0.40
NOV 6.81	NOV 5.81	U 550.	41.5	4.26	4.16	0.1074	3.60	1.01
NOV 7.81	NOV 6.81	1840.	15.8	4.59	4.54	0.0576	1.20	0.28
NOV 8.81	NOV 7.81	116.	*****	*****	6.53	******	1.60	0.06
NOV 12.81	NOV 11.81	168.	*****	*****	4.16	0.1164	5.50	2.10
NOV 17.81	NOV 16.81	898.	22.4	4.77	U 4.86	0.0500	3.45	0.46
NOV 18.81	NOV 17.81	209.	*****	*****	3.92	0.1784	7.85	1.92
NOV 19.81	NOV 18.81	119.	*****	*****	4.19	******	5.90	0.50
NOV 20.81	NOV 19.81	158.	42.9	*****	4.48	******	5.05	1.58
NOV 21.81	NOV 20.81	1737.	32.5	3.38	4.25	0.0984	2.40	0.82

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/SES #12

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
FEB 21.81	FEB 20.81	0.04	0.09	<T 0.005	0.010	0.040	0.184	0.0148
FEB 24.81	FEB 23.81	<T 0.01	0.03	<T 0.005	<T 0.010	0.020	U 0.004	U 0.0030
FEB 25.81	FEB 24.81	*****	*****	*****	*****	*****	0.510	0.3981
FEB 26.81	FEB 25.81	0.20	0.24	0.045	0.030	0.120	0.226	0.1318
MAR 1.81	FEB 28.81	*****	*****	*****	*****	*****	*****	*******
MAR 3.81	MAR 2.81	0.43	0.30	0.075	0.030	0.120	0.740	0.1175
MAR 7.81	MAR 6.81	0.16	0.06	0.050	<T 0.010	0.050	0.018	0.0047
MAR 10.81	MAR 9.81	*****	*****	*****	*****	*****	1.270	0.0912
MAR 11.81	MAR 10.81	0.63	0.16	0.070	0.040	0.130	0.290	0.0309
MAR 13.81	MAR 12.81	2.00	0.64	U 0.375	0.080	0.300	1.520	0.0191
MAR 14.81	MAR 13.81	0.48	0.18	0.075	0.020	0.150	0.344	0.0110
MAR 16.81	MAR 15.81	U 3.60	U 0.83	U 0.725	0.140	0.440	1.180	U 0.0001
MAR 18.81	MAR 17.81	U 1.87	0.59	U 0.575	0.020	U 0.540	0.610	U 0.0001
MAR 20.81	MAR 19.81	0.28	0.36	0.040	<T 0.010	0.220	0.086	0.0148
MAR 27.81	MAR 26.81	6.60	U 2.60	1.400	0.190	U 2.000	0.500	0.3548
MAR 31.81	MAR 30.81	1.50	0.42	0.235	U 0.150	0.290	0.720	0.0209
APR 2.81	APR 1.81	U 2.58	0.50	0.225	0.150	U 0.320	0.850	0.0490
APR 4.81	APR 3.81	3.05	0.66	0.515	0.280	0.360	0.990	0.0162
APR 5.81	APR 4.81	0.60	0.22	0.100	0.080	0.150	0.560	0.0513
APR 6.81	APR 5.81	*****	*****	*****	*****	*****	*****	0.0257
APR 9.81	APR 8.81	U 5.50	U 1.46	U 1.120	0.300	0.850	1.530	U 0.0002
APR 10.81	APR 9.81	0.69	0.67	0.160	0.090	0.480	0.940	0.0955
APR 11.81	APR 10.81	0.92	0.21	0.165	0.040	0.140	0.600	0.0741
APR 15.81	APR 14.81	0.46	0.08	0.110	0.030	0.080	0.186	U 0.0182
APR 18.81	APR 17.81	1.31	0.13	U 0.275	0.030	0.070	0.580	0.0166
APR 19.81	APR 18.81	*****	0.22	*****	*****	*****	0.840	U 0.0002
APR 24.81	APR 23.81	1.31	0.25	0.335	0.050	0.070	0.700	0.0550
APR 25.81	APR 24.81	0.08	0.04	0.010	<T 0.010	0.050	0.138	0.0661
APR 26.81	APR 25.81	0.47	0.84	0.065	0.390	0.540	0.450	0.0209
APR 29.81	APR 28.81	1.13	0.53	U 0.325	0.800	0.400	U 5.350	U 0.0001
APR 30.81	APR 29.81	*****	U 1.54	*****	*****	*****	*****	0.0813
NOV 6.81	NOV 5.81	U 0.81	0.24	U 0.220	0.050	0.100	0.368	0.0692
NOV 7.81	NOV 6.81	0.18	0.04	0.005	0.010	0.020	0.162	0.0288
NOV 8.81	NOV 7.81	0.90	0.48	0.200	0.090	0.090	0.804	0.0003
NOV 12.81	NOV 11.81	*****	0.56	*****	*****	*****	*****	0.0692
NOV 17.81	NOV 16.81	0.82	0.36	U 0.190	0.060	U 0.250	U 0.610	U 0.0138
NOV 18.81	NOV 17.81	U 0.76	0.52	U 0.130	U 0.160	U 0.260	U 1.930	0.1202
NOV 19.81	NOV 18.81	*****	0.24	*****	*****	*****	0.390	0.0646
NOV 20.81	NOV 19.81	0.22	0.29	U 0.085	0.130	0.180	U 2.200	0.0331
NOV 21.81	NOV 20.81	0.13	0.18	0.005	0.020	0.050	0.690	0.0562

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/SES #12

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
NOV 22.81	NOV 21.81	800	800	1650	1655	2	3.2	2	22594	2	1	66		J
NOV 27.81	NOV 26.81	800	800	2010	2018	1	8.6	2	22595	2	1	112		
DEC 2.81	DEC 1.81	800	800	1855	1900	1	0.1	2	22596	2	1	445		N
DEC 3.81	DEC 2.81	800	800	1935	1938	1	0.2	2	22597	2	1	301		N
DEC 8.81	DEC 7.81	800	800	210	220	2	4.8	2	22598	2	1	89		
DEC 9.81	DEC 8.81	800	800	710	715	2	2.0	2	22599	2	1	46		N
DEC 10.81	DEC 9.81	800	800	1400	1405	2	1.4	2	22600	2	1	10		N
DEC 11.81	DEC 10.81	800	800	745	755	2	3.0	2	22601	2	1	58		C
DEC 15.81	DEC 14.81	800	800	2040	2045	1	1.2	2	22602	2	1	****	HGE	
DEC 22.81	DEC 21.81	800	800	710	800	2	7.4	2	22603	2	1	51		
DEC 23.81	DEC 22.81	800	800	610	800	*	11.0	2	22604	2	1	74		
DEC 24.81	DEC 23.81	800	800	810	820	2	6.0	2	22605	2	1	42		N
DEC 28.81	DEC 27.81	800	800	1610	1620	2	10.8	2	22606	2	1	66		
DEC 29.81	DEC 28.81	800	800	2010	2015	2	9.4	2	22607	2	1	68		
JAN 1.82	DEC 31.81	800	800	700	710	3	12.2	2	22608	2	1	77		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/SES #12

REMOVAL DATE	EXPOSURE DATE		VOLUME ML	CONDUCT. UMHO/CM		PH FIELD		PH LAB		TOTAL H+ TO PH8.3 UG/L		SULPHATE MG/L		NITRATE AS N MG/L	
NOV 22.81	NOV 21.81		349.	15.8		3.50		4.55		0.0588		0.70		0.42	
NOV 27.81	NOV 26.81		1584.	28.7	U	5.90	U	6.06	U	0.0342		3.95		0.66	
DEC 2.81	DEC 1.81		73.	*****		*****	U	7.26		******	U	14.10	U	2.80	
DEC 3.81	DEC 2.81		99.	*****		*****		3.81		******		7.50		2.30	
DEC 8.81	DEC 7.81		585.	13.5		5.43		5.56	U	0.0348		1.30		0.80	
DEC 9.81	DEC 8.81	U	151.	57.5		*****		4.02		******		4.00		1.02	
DEC 10.81	DEC 9.81	U	24.	*****		*****	U	7.14		******		*****		*****	
DEC 11.81	DEC 10.81		288.	U 2.9		*****		5.79		0.0292		0.25		0.05	
DEC 15.81	DEC 14.81		*****	*****		*****		*****		******		*****		*****	
DEC 22.81	DEC 21.81		630.	15.1		4.71		4.89		0.0520		1.00		0.68	
DEC 23.81	DEC 22.81		1340.	13.3		4.57		4.68		0.0504		1.35		0.26	
DEC 24.81	DEC 23.81	U	419.	21.5		4.24		4.31		0.0756		1.65		0.32	
DEC 28.81	DEC 27.81		1174.	18.9		4.43		4.54		0.0610		1.50		0.52	
DEC 29.81	DEC 28.81		1063.	14.0		4.64		4.71		0.0606		1.05		0.46	
JAN 1.82	DEC 31.81		1545.	23.2		4.30		4.33		0.0922		1.50		0.46	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/SES #12 PAGE : 6

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
NOV 22.81	NOV 21.81	0.16	0.16	0.025	0.070	0.110	0.102	0.0282
NOV 27.81	NOV 26.81	1.49	0.30	U 0.480	0.110	0.180	0.400	U 0.0009
DEC 2.81	DEC 1.81	*****	0.78	*****	*****	*****	0.132	U 0.0001
DEC 3.81	DEC 2.81	*****	0.60	*****	*****	*****	1.520	0.1549
DEC 8.81	DEC 7.81	0.80	0.14	U 0.250	0.030	0.070	0.380	0.0028
DEC 9.81	DEC 8.81	0.24	0.19	0.060	0.030	0.080	0.470	0.0955
DEC 10.81	DEC 9.81	*****	*****	*****	*****	*****	*****	U 0.0001
DEC 11.81	DEC 10.81	0.14	0.07	0.025	0.010	0.070	0.036	0.0016
DEC 15.81	DEC 14.81	*****	*****	*****	*****	*****	*****	******
DEC 22.81	DEC 21.81	0.72	0.23	0.215	0.030	0.160	0.140	0.0129
DEC 23.81	DEC 22.81	0.07	0.02	0.005	0.020	0.030	0.390	0.0209
DEC 24.81	DEC 23.81	0.06	0.08	<T 0.005	0.050	0.050	0.174	0.0490
DEC 28.81	DEC 27.81	0.30	0.08	U 0.050	0.030	0.080	0.410	0.0288
DEC 29.81	DEC 28.81	0.06	0.19	0.010	0.030	0.090	0.400	0.0195
JAN 1.82	DEC 31.81	0.08	0.18	0.010	0.070	0.100	0.118	0.0468

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FORBES TWSP/DAILY/AEROCHEM #13 PAGE : 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
SEP 24.81	SEP 23.81	800	830	1800	****	1	2.0	1	33500	2	1	97		
SEP 26.81	SEP 25.81	800	900	****	****	1	3.2	1	33501	2	1	109	G	
SEP 27.81	SEP 26.81	900	830	900	830	1	15.6	1	33502	2	1	102		J
SEP 28.81	SEP 27.81	830	830	830	1100	1	1.0	1	33503	2	1	68	ABD	
OCT 1.81	SEP 30.81	830	830	****	830	2	15.0	2	33504	2	1	29		N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FORBES TWSP/DAILY/AEROCHEM #13

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
SEP 24.81	SEP 23.81	125.	*****	*****	4.12	******	5.10	0.76
SEP 26.81	SEP 25.81	225.	74.5	*****	3.82	******	8.35	0.86
SEP 27.81	SEP 26.81	1026.	14.8	U 5.25	4.47	0.0568	1.35	0.18
SEP 28.81	SEP 27.81	44.	*****	*****	5.98	******	0.10	<T 0.01
OCT 1.81	SEP 30.81	U 280.	13.0	*****	4.61	0.0526	1.20	0.09

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FORBES TWSP/DAILY/AEROCHEM #13

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
SEP 24.81	SEP 23.81	0.71	0.14	0.075	0.030	0.040	*****	0.0759
SEP 26.81	SEP 25.81	0.40	0.12	0.050	0.040	0.070	0.740	0.1514
SEP 27.81	SEP 26.81	0.05	<T 0.01	<T 0.005	0.050	0.130	0.164	0.0339
SEP 28.81	SEP 27.81	*****	<T 0.01	*****	*****	*****	*****	0.0010
OCT 1.81	SEP 30.81	0.10	0.22	0.020	<T 0.010	0.230	0.066	0.0245

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FORBES TWSP/DAILY/SES #13

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
OCT 5.81	OCT 3.81	800	830	****	2345	1	3.2	2	33505	2	1	125	JD	N7
OCT 6.81	OCT 5.81	830	830	30	****	1	7.9	2	33506	2	1	101	GQ	N
OCT 7.81	OCT 6.81	830	800	1000	2200	3	****	*	33507	2	1	****	AD	
OCT 9.81	OCT 8.81	730	730	****	****	1	****	*	33508	2	1	****	D	
OCT 10.81	OCT 9.81	730	830	****	830	1	****	*	33509	2	1	****	AD	
OCT 11.81	OCT 10.81	830	830	30	830	1	0.8	2	33510	2	1	128	DC	N
OCT 14.81	OCT 13.81	800	830	****	1200	1	18.9	2	33511	2	1	119		
OCT 15.81	OCT 14.81	830	800	830	1200	1	****	2	33512	2	1	****	C	
OCT 17.81	OCT 16.81	830	1000	****	1000	1	5.5	2	33513	2	1	106	D	C
OCT 18.81	OCT 17.81	1000	1000	****	1000	3	14.2	2	33514	2	1	97	D	
OCT 20.81	OCT 19.81	800	800	****	1400	2	3.2	2	33515	2	1	71	D	
OCT 23.81	OCT 22.81	800	800	****	2300	2	1.6	2	33516	2	1	97	C	
OCT 25.81	OCT 24.81	800	830	****	830	2	2.2	2	33517	2	1	60	CD	
OCT 26.81	OCT 25.81	830	730	30	1400	2	0.8	2	33518	2	1	54	CD	
OCT 29.81	OCT 28.81	800	900	****	****	1	3.2	2	33519	2	1	95	C	
NOV 16.81	NOV 15.81	800	830	2000	830	1	1.7	2	33520	2	1	143	DE	N
NOV 17.81	NOV 16.81	830	800	830	1400	1	0.4	2	33521	2	1	224	CD	N
NOV 26.81	NOV 25.81	900	900	900	900	2	5.9	2	33522	2	1	87	CD	
NOV 27.81	NOV 26.81	900	830	900	830	2	13.9	2	33523	2	1	74	CDE	X
DEC 1.81	NOV 30.81	800	1200	1030	1200	2	0.3	2	33524	2	1	201	CDG	N
DEC 2.81	DEC 1.81	1200	830	1200	1530	2	1.2	2	33525	2	1	134	C	N
DEC 3.81	DEC 2.81	****	830	****	800	2	****	*	33526	2	1	****	DE	
DEC 4.81	DEC 3.81	800	830	800	2400	2	1.3	2	33527	2	1	88	CD	
DEC 5.81	DEC 4.81	830	900	1030	1300	2	0.1	2	33528	2	1	133	DE	N
DEC 8.81	DEC 7.81	900	900	900	630	2	0.7	2	33529	2	1	81	CDGH	
DEC 12.81	DEC 11.81	900	900	****	****	2	****	2	33530	2	1	****	CD	
DEC 13.81	DEC 12.81	900	900	900	1200	2	0.8	2	33531	2	1	86	CD	
DEC 14.81	DEC 13.81	900	830	2100	830	2	0.2	2	33532	2	1	164	CD	N
DEC 15.81	DEC 14.81	830	900	830	900	2	0.6	2	33533	2	1	98	CD	
DEC 16.81	DEC 15.81	900	830	900	1200	2	0.2	2	33534	2	1	82	CD	
DEC 21.81	DEC 20.81	900	900	1900	600	2	4.0	2	33535	2	1	88	CD	
DEC 22.81	DEC 21.81	900	900	100	900	2	0.4	2	33536	2	1	144	CD	N
DEC 23.81	DEC 22.81	900	830	900	600	2	2.6	2	33537	2	1	80	CD	
DEC 24.81	DEC 23.81	830	900	900	1200	2	0.4	2	33538	2	1	83	C	
DEC 25.81	DEC 24.81	900	1130	100	600	2	****	2	33539	2	1	****	C	
DEC 26.81	DEC 25.81	1100	1100	100	1100	2	****	2	33540	2	1	****	CD	
DEC 27.81	DEC 26.81	1100	1000	1100	1000	2	3.8	2	33541	2	1	80	CD	
DEC 28.81	DEC 27.81	1000	830	1000	1500	2	2.4	2	33542	2	1	82	CD	
DEC 31.81	DEC 30.81	830	900	1900	900	2	2.6	2	33543	2	1	95	CD	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FORBES TWSP/DAILY/SES #13

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD		PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
OCT 5.81	OCT 3.81	659.	30.8	4.17		4.11	0.0938	3.10	0.36
OCT 6.81	OCT 5.81	1310.	3.6	5.20		5.07	0.0334	0.10	0.20
OCT 7.81	OCT 6.81	63.	*****	*****	U	6.02	******	0.10	0.01
OCT 9.81	OCT 8.81	36.	*****	*****		3.90	******	*****	*****
OCT 10.81	OCT 9.81	10.	*****	*****		3.76	******	*****	*****
OCT 11.81	OCT 10.81	169.	*****	*****		3.56	******	8.70	2.60
OCT 14.81	OCT 13.81	3695.	21.7	4.29		4.25	0.0932	2.40	0.20
OCT 15.81	OCT 14.81	78.	*****	*****		4.17	******	2.30	0.54
OCT 17.81	OCT 16.81	963.	6.6	5.15		5.32	0.0340	0.70	0.14
OCT 18.81	OCT 17.81	2271.	7.0	4.84		4.87	0.0414	0.65	0.10
OCT 20.81	OCT 19.81	374.	9.0	4.40		4.84	0.0560	0.80	0.16
OCT 23.81	OCT 22.81	257.	7.4	*****		4.81	0.0416	0.40	0.13
OCT 25.81	OCT 24.81	219.	10.6	*****		5.08	0.0382	1.25	0.29
OCT 26.81	OCT 25.81	71.	*****	*****		4.60	******	1.75	0.06
OCT 29.81	OCT 28.81	503.	19.3	4.39		4.36	0.0752	1.75	0.27
NOV 16.81	NOV 15.81	399.	*****	3.81		*****	******	*****	*****
NOV 17.81	NOV 16.81	147.	62.5	*****		4.11	******	6.55	1.88
NOV 26.81	NOV 25.81	850.	25.4	4.35		4.33	0.0896	1.85	0.55
NOV 27.81	NOV 26.81	1688.	*****	4.28		*****	******	*****	*****
DEC 1.81	NOV 30.81	99.	*****	*****		4.47	******	1.95	0.81
DEC 2.81	DEC 1.81	265.	24.4	*****		4.30	0.0918	1.00	0.61
DEC 3.81	DEC 2.81	16.	*****	*****		*****	******	*****	*****
DEC 4.81	DEC 3.81	189.	*****	*****		4.73	******	0.60	0.11
DEC 5.81	DEC 4.81	22.	*****	*****		*****	******	*****	*****
DEC 8.81	DEC 7.81	93.	*****	*****		*****	******	*****	*****
DEC 12.81	DEC 11.81	32.	*****	*****		4.38	******	*****	*****
DEC 13.81	DEC 12.81	113.	*****	*****		4.49	******	*****	*****
DEC 14.81	DEC 13.81	54.	*****	*****		4.68	******	*****	*****
DEC 15.81	DEC 14.81	97.	*****	*****		4.82	******	0.35	0.13
DEC 16.81	DEC 15.81	27.	*****	*****		*****	******	*****	*****
DEC 21.81	DEC 20.81	579.	9.2	*****		4.70	0.0494	0.40	0.28
DEC 22.81	DEC 21.81	95.	*****	*****		4.46	******	1.40	0.44
DEC 23.81	DEC 22.81	341.	12.0	*****		4.38	0.0622	0.85	0.22
DEC 24.81	DEC 23.81	55.	*****	*****		4.47	******	*****	*****
DEC 25.81	DEC 24.81	22.	*****	*****		4.48	******	*****	*****
DEC 26.81	DEC 25.81	46.	*****	*****	U	5.28	******	0.15	0.19
DEC 27.81	DEC 26.81	499.	22.2	*****		4.27	0.0818	0.95	0.54
DEC 28.81	DEC 27.81	323.	25.1	*****		4.18	0.0990	0.40	0.71
DEC 31.81	DEC 30.81	405.	6.8	*****		4.79	0.0448	0.15	0.16

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FORBES TWSP/DAILY/SES #13 PAGE : 3

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
OCT 5.81	OCT 3.81	0.15	0.09	0.015	0.130	0.170	0.260	0.0776
OCT 6.81	OCT 5.81	0.01	<T 0.01	<T 0.005	<T 0.010	<T 0.010	0.018	0.0085
OCT 7.81	OCT 6.81	*****	0.15	*****	*****	*****	*****	U 0.0018
OCT 9.81	OCT 8.81	*****	*****	*****	*****	*****	*****	0.1259
OCT 10.81	OCT 9.81	*****	*****	*****	*****	*****	*****	0.1738
OCT 11.81	OCT 10.81	0.40	0.38	0.055	0.110	0.170	1.180	0.2754
OCT 14.81	OCT 13.81	0.06	<T 0.01	0.005	<T 0.010	<T 0.010	0.146	0.0562
OCT 15.81	OCT 14.81	*****	0.01	*****	*****	*****	0.348	0.0676
OCT 17.81	OCT 16.81	0.07	<T 0.01	0.010	0.020	0.020	0.270	0.0048
OCT 18.81	OCT 17.81	0.02	<T 0.01	0.005	<T 0.010	<T 0.010	0.136	0.0135
OCT 20.81	OCT 19.81	0.10	<T 0.01	<T 0.005	0.320	0.250	0.148	0.0145
OCT 23.81	OCT 22.81	0.03	<T 0.01	0.010	0.010	0.010	0.062	0.0155
OCT 25.81	OCT 24.81	0.40	0.10	0.045	0.060	0.060	0.256	0.0083
OCT 26.81	OCT 25.81	*****	0.22	*****	*****	*****	*****	0.0251
OCT 29.81	OCT 28.81	0.14	0.07	<T 0.005	0.030	0.070	0.156	0.0437
NOV 16.81	NOV 15.81	*****	*****	*****	*****	*****	*****	******
NOV 17.81	NOV 16.81	0.29	0.15	0.040	0.060	0.130	2.500	0.0776
NOV 26.81	NOV 25.81	0.14	0.14	0.005	0.040	0.130	0.260	0.0468
NOV 27.81	NOV 26.81	*****	*****	*****	*****	*****	*****	******
DEC 1.81	NOV 30.81	0.45	0.60	0.040	0.290	0.420	0.390	0.0339
DEC 2.81	DEC 1.81	0.14	0.05	0.015	0.010	0.020	0.146	0.0501
DEC 3.81	DEC 2.81	*****	*****	*****	*****	*****	*****	******
DEC 4.81	DEC 3.81	0.03	0.02	<T 0.005	<T 0.010	0.030	0.084	0.0186
DEC 5.81	DEC 4.81	*****	*****	*****	*****	*****	*****	******
DEC 8.81	DEC 7.81	*****	*****	*****	*****	*****	*****	******
DEC 12.81	DEC 11.81	*****	*****	*****	*****	*****	*****	0.0417
DEC 13.81	DEC 12.81	*****	*****	*****	*****	*****	*****	0.0324
DEC 14.81	DEC 13.81	*****	*****	*****	*****	*****	*****	0.0209
DEC 15.81	DEC 14.81	*****	0.08	*****	*****	*****	*****	0.0151
DEC 16.81	DEC 15.81	*****	*****	*****	*****	*****	*****	******
DEC 21.81	DEC 20.81	0.05	<T 0.01	<T 0.005	<T 0.010	0.010	0.082	0.0200
DEC 22.81	DEC 21.81	*****	0.07	*****	*****	*****	0.204	0.0347
DEC 23.81	DEC 22.81	0.04	0.02	0.010	0.020	0.030	*****	0.0417
DEC 24.81	DEC 23.81	*****	*****	*****	*****	*****	*****	0.0339
DEC 25.81	DEC 24.81	*****	*****	*****	*****	*****	*****	0.0331
DEC 26.81	DEC 25.81	*****	0.07	*****	*****	*****	*****	U 0.0052
DEC 27.81	DEC 26.81	0.04	0.04	<T 0.005	0.020	0.060	0.120	0.0537
DEC 28.81	DEC 27.81	0.03	0.04	<T 0.005	0.010	0.010	0.012	0.0661
DEC 31.81	DEC 30.81	0.02	<T 0.01	<T 0.005	0.010	0.010	0.006	0.0162

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY/SES #14 PAGE : 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
OCT 17.81	OCT 16.81	800	800	****	****	1	3.9	1	33001	2	1	35	G	N
OCT 18.81	OCT 17.81	800	800	****	****	3	7.9	2	33002	2	1	174	BC	CN
OCT 19.81	OCT 18.81	800	800	****	****	3	1.6	2	33003	2	1	35	BCD	N
OCT 20.81	OCT 19.81	800	800	****	1100	2	****	2	33004	2	1	****	C	
OCT 23.81	OCT 22.81	800	800	****	****	2	1.6	2	33005	2	1	60	CD	
OCT 25.81	OCT 24.81	800	800	****	800	2	4.7	2	33006	2	1	66	CD	
NOV 7.81	NOV 6.81	830	800	1300	1600	3	0.7	2	33008	2	1	149	C	N
NOV 9.81	NOV 8.81	800	800	2000	2200	2	****	2	33007	2	1	****	CDE	
NOV 16.81	NOV 15.81	1000	900	****	****	1	****	2	33009	2	1	****	CD	
NOV 17.81	NOV 16.81	900	800	1800	800	1	0.7	2	33010	2	1	101	CD	
NOV 18.81	NOV 17.81	800	800	****	****	2	0.5	2	33011	2	1	101	CD	
NOV 20.81	NOV 19.81	800	800	****	****	2	****	2	33012	2	1	****	CD	
NOV 26.81	NOV 25.81	800	800	1000	800	2	7.5	2	33013	2	1	99	CD	
NOV 28.81	NOV 27.81	800	1000	****	****	2	12.0	2	33014	2	1	86	CD	
DEC 2.81	DEC 1.81	800	800	1400	2000	2	****	2	33015	2	1	****		
DEC 6.81	DEC 5.81	800	800	100	600	2	****	2	33016	2	1	****	CD	
DEC 8.81	DEC 7.81	800	800	1800	800	2	****	2	33017	2	1	****	CD	
DEC 12.81	DEC 11.81	800	800	2200	100	2	3.0	2	33018	2	1	81	CD	
DEC 14.81	DEC 13.81	800	800	2400	800	2	****	2	33019	2	1	****	CD	
DEC 15.81	DEC 14.81	800	800	800	800	2	****	2	33020	2	1	****	CD	
DEC 16.81	DEC 15.81	800	800	800	1100	2	****	2	33021	2	1	****	CD	
DEC 21.81	DEC 20.81	800	800	1400	700	2	4.0	2	33022	2	1	76	CD	
DEC 22.81	DEC 21.81	800	800	800	1100	2	****	2	33023	2	1	****	CD	
DEC 23.81	DEC 22.81	800	800	2000	800	2	2.6	2	33024	2	1	71	CD	
DEC 24.81	DEC 23.81	800	800	1000	500	2	****	2	33025	2	1	****	CD	
DEC 25.81	DEC 24.81	800	800	****	****	2	****	2	33026	2	1	****	CD	
DEC 27.81	DEC 26.81	800	800	2200	800	2	4.2	2	33027	2	1	56	CD	
DEC 28.81	DEC 27.81	800	800	1200	2200	2	****	2	33028	2	1	****	CD	
DEC 31.81	DEC 30.81	800	800	2000	200	2	4.0	2	33029	2	1	78	CD	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY/SES #14

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH4.3 UG/L	SULPHATE MG/L	NITRATE AS N MG/L
OCT 17.81	OCT 16.81	U 224.	*****	*****	*****	******	*****	*****
OCT 18.81	OCT 17.81	2260.	6.1	5.00	5.16	0.0532	0.40	0.13
OCT 19.81	OCT 18.81	U 93.	*****	*****	U 5.74	******	0.70	0.10
OCT 20.81	OCT 19.81	82.	*****	*****	5.18	******	1.80	0.30
OCT 23.81	OCT 22.81	158.	*****	*****	5.12	******	0.80	0.21
OCT 25.81	OCT 24.81	516.	12.2	4.92	4.97	0.0450	1.35	0.33
NOV 7.81	NOV 6.81	172.	*****	*****	4.62	******	1.95	0.08
NOV 9.81	NOV 8.81	19.	*****	*****	*****	******	*****	*****
NOV 16.81	NOV 15.81	128.	119.0	*****	3.82	******	14.00	3.57
NOV 17.81	NOV 16.81	117.	16.6	*****	4.92	******	1.75	0.48
NOV 18.81	NOV 17.81	83.	10.0	*****	4.79	******	1.00	0.80
NOV 20.81	NOV 19.81	137.	7.7	*****	4.83	******	0.50	0.12
NOV 26.81	NOV 25.81	1229.	23.0	4.35	4.33	0.0810	1.30	0.61
NOV 28.81	NOV 27.81	1709.	12.7	4.54	4.55	0.0606	0.25	0.33
DEC 2.81	DEC 1.81	282.	20.0	*****	4.33	0.0730	0.85	0.53
DEC 6.81	DEC 5.81	164.	*****	*****	4.47	******	1.75	0.40
DEC 8.81	DEC 7.81	154.	*****	*****	4.28	******	1.80	0.56
DEC 12.81	DEC 11.81	399.	33.7	*****	4.18	0.0976	1.80	0.99
DEC 14.81	DEC 13.81	78.	*****	*****	4.62	******	0.35	0.29
DEC 15.81	DEC 14.81	190.	*****	*****	4.74	******	0.15	0.22
DEC 16.81	DEC 15.81	81.	*****	*****	4.90	******	0.30	0.13
DEC 21.81	DEC 20.81	499.	10.0	*****	4.74	0.0480	0.30	0.32
DEC 22.81	DEC 21.81	47.	*****	*****	4.61	******	*****	*****
DEC 23.81	DEC 22.81	303.	15.6	*****	4.48	0.0616	0.90	0.25
DEC 24.81	DEC 23.81	169.	*****	*****	4.88	******	0.30	0.22
DEC 25.81	DEC 24.81	120.	*****	*****	4.68	******	*****	*****
DEC 27.81	DEC 26.81	389.	22.5	*****	4.24	0.0850	0.25	0.72
DEC 28.81	DEC 27.81	195.	25.4	*****	4.29	******	0.40	0.74
DEC 31.81	DEC 30.81	515.	9.7	*****	4.68	0.0496	0.15	0.25

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY/SES #14 PAGE : 3

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
OCT 17.81	OCT 16.81	*****	*****	*****	*****	*****	*****	******
OCT 18.81	OCT 17.81	0.03	<T 0.01	<T 0.005	<T 0.010	0.010	0.170	0.0069
OCT 19.81	OCT 18.81	*****	0.09	*****	*****	*****	0.142	U 0.0018
OCT 20.81	OCT 19.81	*****	0.24	*****	*****	*****	0.264	0.0066
OCT 23.81	OCT 22.81	0.20	0.08	0.015	0.040	0.120	0.252	0.0076
OCT 25.81	OCT 24.81	0.32	0.04	0.045	0.030	0.020	0.328	0.0107
NOV 7.81	NOV 6.81	0.14	0.04	<T 0.005	0.060	0.080	0.262	0.0240
NOV 9.81	NOV 8.81	*****	*****	*****	*****	*****	*****	******
NOV 16.81	NOV 15.81	1.45	0.32	0.155	0.150	0.250	*****	0.1514
NOV 17.81	NOV 16.81	0.16	0.24	0.005	0.180	0.210	0.910	0.0120
NOV 18.81	NOV 17.81	*****	0.06	*****	*****	*****	*****	0.0162
NOV 20.81	NOV 19.81	0.05	0.16	0.005	0.010	0.110	0.014	0.0148
NOV 26.81	NOV 25.81	0.07	0.04	<T 0.005	0.020	0.040	0.360	0.0468
NOV 28.81	NOV 27.81	<T 0.01	<T 0.01	<T 0.005	<T 0.010	0.020	0.054	0.0282
DEC 2.81	DEC 1.81	0.05	0.05	<T 0.005	0.010	0.010	0.240	0.0468
DEC 6.81	DEC 5.81	0.17	0.08	0.010	0.020	0.050	0.326	0.0339
DEC 8.81	DEC 7.81	0.06	0.04	0.005	0.010	0.020	0.256	0.0525
DEC 12.81	DEC 11.81	0.29	0.11	0.015	0.030	0.090	0.530	0.0661
DEC 14.81	DEC 13.81	*****	0.16	*****	*****	*****	0.006	0.0240
DEC 15.81	DEC 14.81	0.08	0.10	0.010	0.020	0.030	*****	0.0182
DEC 16.81	DEC 15.81	*****	0.14	*****	*****	*****	*****	0.0126
DEC 21.81	DEC 20.81	0.05	0.04	<T 0.005	0.020	0.010	*****	0.0182
DEC 22.81	DEC 21.81	*****	*****	*****	*****	*****	*****	0.0245
DEC 23.81	DEC 22.81	0.02	0.12	<T 0.005	0.020	0.050	*****	0.0331
DEC 24.81	DEC 23.81	*****	0.22	*****	*****	*****	*****	0.0132
DEC 25.81	DEC 24.81	*****	*****	*****	*****	*****	*****	0.0209
DEC 27.81	DEC 26.81	0.04	0.07	<T 0.005	0.030	0.020	*****	0.0575
DEC 28.81	DEC 27.81	0.05	0.11	<T 0.005	0.010	0.030	*****	0.0513
DEC 31.81	DEC 30.81	0.02	0.14	<T 0.005	0.010	0.070	*****	0.0209

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LAC LA CROIX/DAILY/AEROCHEM #15

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
SEP 24.81	SEP 23.81	800	800	1200	1800	1	1.9	1	32500	2	1	100	D	
SEP 26.81	SEP 25.81	800	800	1700	****	1	1.0	1	32501	2	1	71	C	
SEP 28.81	SEP 27.81	800	820	1100	****	1	13.1	1	32502	2	1	54	DB	CM

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LAC LA CROIX/DAILY/AEROCHEM #15 PAGE : 2

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
SEP 24.81	SEP 23.81	122.	*****	*****	4.38	******	3.50	0.52
SEP 26.81	SEP 25.81	46.	*****	*****	4.14	******	7.60	0.52
SEP 28.81	SEP 27.81	456.	6.2	4.55	5.06	0.0356	0.35	0.07

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LAC LA CROIX/DAILY/AEROCHEM #15

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
SEP 24.81	SEP 23.81	*****		*****	*****	*****		
SEP 26.81	SEP 25.81	*****	0.14	*****	*****	*****	0.460	0.0417
SEP 28.81	SEP 27.81	0.06	0.52	*****	*****	*****	*****	0.0724
			0.04	0.005	0.060	0.030	0.086	0.0087

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LAC LA CROIX/DAILY/SES #15

REMOVAL DATE	EXPOSURE DATE	SAMPLING START HR.	SAMPLING END HR.	PRECIP START HR.	PRECIP END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
NOV 18.81	NOV 17.81	800	800	****	****	2	****	2	32503	2	1	****	DC	
NOV 20.81	NOV 19.81	800	800	****	****	1	****	2	32504	2	1	****	CD	
NOV 26.81	NOV 25.81	800	800	****	****	1	10.0	2	32505	2	1	103	D	
NOV 27.81	NOV 26.81	800	800	1200	1600	2	7.0	2	32506	2	1	97	CD	
DEC 5.81	DEC 4.81	800	830	****	****	2	1.3	2	32507	2	1	116	C	
DEC 12.81	DEC 11.81	800	815	****	****	2	4.3	2	32508	2	1	87	C	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LAC LA CROIX/DAILY/SES #15 PAGE : 2

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH=8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
NOV 18.81	NOV 17.81	55.	*****	*****	4.21	******	*****	*****
NOV 20.81	NOV 19.81	104.	*****	*****	4.83	******	0.70	0.17
NOV 26.81	NOV 25.81	1697.	31.2	*****	4.21	0.1070	2.35	0.85
NOV 27.81	NOV 26.81	1116.	11.6	*****	4.62	0.0676	0.35	0.30
DEC 5.81	DEC 4.81	249.	*****	*****	4.44	******	*****	*****
DEC 12.81	DEC 11.81	618.	24.9	*****	4.33	0.0904	1.05	0.77

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LAC LA CROIX/DAILY/SES #15

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB UG/L
		*****	*****	*****	*****	*****	< 2.000	0.0617
NOV 18.81	NOV 17.81	0.09	0.15	0.010	0.010	0.110	0.060	0.0148
NOV 20.81	NOV 19.81	0.27	0.09	0.015	0.050	0.110	0.550	0.0617
NOV 26.81	NOV 25.81	0.02	0.02	<T 0.005	0.010	0.010	0.050	0.0240
NOV 27.81	NOV 26.81	*****	*****	*****	*****	*****	*****	0.0363
DEC 5.81	DEC 4.81	0.22	0.09	0.010	0.030	0.120	0.206	0.0468
DEC 12.81	DEC 11.81							

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/SES #16

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR.	SAMPLING START/END HR.	PRECIP START/END HR.	PRECIP START/END HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-ICE	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES 04-ON HYDRO	SAMPLER EFFICIENCY (%)	COMMENTS FIELD	COMMENTS OFFICE
OCT 2-81	OCT 1.81	830	830	****	****	1	****	2	32005	2	1	****		M
OCT 4-81	OCT 3.81	830	830	2000	2400	1	5.5	2	32001	2	1	111	BCDQ	
OCT 5-81	OCT 4.81	830	830	****	1530	1	5.9	2	32002	2	1	50	DH	
OCT 6-81	OCT 5.81	830	830	30	1700	1	5.9	2	32003	2	1	196	D	MN
OCT 7-81	OCT 6.81	830	830	1000	1400	1	****	2	32004	2	1	****	D	M
OCT 10-81	OCT 9.81	830	830	****	****	1	****	*	12023	2	1	****	C	
OCT 13-81	OCT 12.81	830	830	****	****	1	****	*	12024	2	1	****	CD	
OCT 14-81	OCT 13.81	830	830	****	****	1	****	*	12025	2	1	****	D	
OCT 17-81	OCT 16.81	830	830	****	****	3	5.7	2	38006	2	1	74	D	
OCT 18-81	OCT 17.81	830	830	****	****	3	12.0	2	38007	2	1	95	D	
OCT 20-81	OCT 19.81	830	830	****	****	1	5.0	2	38003	2	1	71	CD	C
OCT 21-81	OCT 20.81	830	830	****	****	4	****	*	38004	2	1	****	E	
OCT 22-81	OCT 21.81	830	830	****	****	1	****	*	38005	2	1	****	ABCDE	
OCT 23-81	OCT 22.81	830	830	****	****	2	3.8	2	38014	2	1	83	D	
OCT 25-81	OCT 24.81	830	830	****	****	2	2.8	2	38015	2	1	87	C	
OCT 31-81	OCT 30.81	1000	1100	****	****	1	****	*	38017	2	1	****		
NOV 6-81	NOV 5.81	830	830	600	800	4	****	*	38016	2	1	****	CD	
NOV 15-81	NOV 14.81	830	830	****	****	1	****	*	38023	2	1	****	D	
NOV 26-81	NOV 25.81	830	1200	130	1030	2	****	*	38027	2	1	****		
NOV 28-81	NOV 27.81	830	830	****	300	2	****	*	38028	2	1	****	D	
DEC 2-81	DEC 1.81	800	830	2400	400	2	2.3	2	38029	2	1	119	CD	
DEC 5-81	DEC 4.81	830	830	100	300	2	1.0	2	38030	2	1	86	CD	C
DEC 12-81	DEC 11.81	830	830	****	****	4	14.0	2	10496	2	1	20		N
DEC 21-81	DEC 20.81	830	830	1730	2200	2	12.0	2	10497	2	1	90	CD	
DEC 27-81	DEC 26.81	830	830	1700	2200	2	****	*	10498	2	1	****	CD	
DEC 28-81	DEC 27.81	****	****	****	****	*	****	*	38040	2	1	****		
DEC 31-81	DEC 30.81	830	830	****	****	2	4.0	2	38039	2	1	77		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/SES #16 PAGE : 2

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 UG/L	SULPHATE MG/L	NITRATE AS N MG/L
OCT 2.81	OCT 1.81	132.	*****	*****	5.03	******	0.25	0.02
OCT 4.81	OCT 3.81	1001.	10.4	4.62	4.67	0.0544	0.80	0.11
OCT 5.81	OCT 4.81	488.	21.4	4.37	4.37	0.0778	2.40	0.17
OCT 6.81	OCT 5.81	1897.	4.7	5.16	5.00	0.0550	0.25	0.04
OCT 7.81	OCT 6.81	127.	*****	*****	5.02	******	0.20	<T 0.01
OCT 10.81	OCT 9.81	1135.	16.5	*****	4.41	0.0724	1.15	0.24
OCT 13.81	OCT 12.81	230.	23.8	*****	4.34	0.0826	2.30	0.23
OCT 14.81	OCT 13.81	2100.	*****	*****	*****	******	*****	*****
OCT 17.81	OCT 16.81	700.	6.0	*****	5.39	0.0388	0.85	0.12
OCT 18.81	OCT 17.81	1880.	5.4	*****	5.00	0.0512	0.60	0.07
OCT 20.81	OCT 19.81	590.	5.2	*****	5.52	0.0388	0.60	0.11
OCT 21.81	OCT 20.81	*****	*****	*****	*****	******	*****	*****
OCT 22.81	OCT 21.81	*****	*****	*****	*****	******	*****	*****
OCT 23.81	OCT 22.81	520.	6.4	*****	5.03	0.0482	0.80	0.12
OCT 25.81	OCT 24.81	400.	15.0	*****	4.66	0.0626	1.50	0.39
OCT 31.81	OCT 30.81	82.	*****	*****	U 6.19	******	13.30	1.96
NOV 6.81	NOV 5.81	54.	*****	*****	4.23	******	3.40	0.16
NOV 15.81	NOV 14.81	15.	*****	*****	3.90	******	> 10.00	> 2.00
NOV 26.81	NOV 25.81	456.	23.0	*****	4.27	0.0784	1.25	0.58
NOV 28.81	NOV 27.81	552.	14.4	*****	4.42	0.0644	0.70	0.27
DEC 2.81	DEC 1.81	450.	18.0	*****	4.50	0.0678	1.20	0.43
DEC 5.81	DEC 4.81	142.	11.6	*****	4.54	******	0.85	0.35
DEC 12.81	DEC 11.81	U 469.	26.5	*****	4.18	0.0898	0.85	0.72
DEC 21.81	DEC 20.81	1781.	8.6	*****	4.74	0.0498	0.25	0.25
DEC 27.81	DEC 26.81	965.	24.0	*****	4.17	0.0868	0.55	0.67
DEC 28.81	DEC 27.81	200.	*****	*****	4.19	******	0.50	0.68
DEC 31.81	DEC 30.81	510.	7.6	*****	4.75	0.0498	0.10	0.18

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/SES #16

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB UG/L
OCT 2.81	OCT 1.81	0.03	0.23	0.020	0.040	0.200	<T 0.002	0.0093
OCT 4.81	OCT 3.81	0.05	<T 0.01	<T 0.005	0.070	0.020	0.050	0.0214
OCT 5.81	OCT 4.81	0.08	0.08	<T 0.005	0.040	0.250	0.104	0.0427
OCT 6.81	OCT 5.81	<T 0.01	0.06	<T 0.005	<T 0.010	0.010	0.040	0.0100
OCT 7.81	OCT 6.81	0.01	0.03	<T 0.005	0.040	0.040	<T 0.002	0.0095
OCT 10.81	OCT 9.81	0.07	0.08	0.010	0.020	0.030	0.090	0.0389
OCT 13.81	OCT 12.81	0.04	0.11	0.010	0.020	0.070	0.114	0.0457
OCT 14.81	OCT 13.81	*****	*****	*****	*****	*****	*****	******
OCT 17.81	OCT 16.81	0.08	<T 0.01	0.010	0.020	0.090	0.266	0.0041
OCT 18.81	OCT 17.81	0.02	<T 0.01	<T 0.005	<T 0.010	0.040	0.108	0.0100
OCT 20.81	OCT 19.81	0.06	0.01	0.030	0.040	0.020	0.198	0.0030
OCT 21.81	OCT 20.81	*****	*****	*****	*****	*****	*****	******
OCT 22.81	OCT 21.81	*****	*****	*****	*****	*****	*****	******
OCT 23.81	OCT 22.81	0.08	0.07	<T 0.005	0.020	0.090	0.074	0.0093
OCT 25.81	OCT 24.81	0.38	0.06	0.145	0.040	0.130	0.292	0.0219
OCT 31.81	OCT 30.81	*****	0.39	*****	*****	*****	*****	U 0.0006
NOV 6.81	NOV 5.81	*****	0.04	*****	*****	*****	*****	0.0589
NOV 15.81	NOV 14.81	*****	0.42	*****	*****	*****	*****	0.1259
NOV 26.81	NOV 25.81	0.08	0.04	0.005	0.010	0.020	0.262	0.0537
NOV 28.81	NOV 27.81	0.02	0.02	<T 0.005	<T 0.010	0.010	0.008	0.0380
DEC 2.81	DEC 1.81	0.06	0.02	0.010	0.030	0.020	0.312	0.0316
DEC 5.81	DEC 4.81	0.07	0.05	0.005	0.020	0.030	0.110	0.0288
DEC 12.81	DEC 11.81	0.15	0.06	0.005	0.020	0.060	0.116	0.0661
DEC 21.81	DEC 20.81	0.06	<T 0.01	<T 0.050	0.020	0.020	0.052	0.0182
DEC 27.81	DEC 26.81	0.02	0.04	<T 0.005	0.010	0.010	0.094	0.0676
DEC 28.81	DEC 27.81	<T 0.01	0.05	<T 0.005	<T 0.010	<T 0.010	0.026	0.0646
DEC 31.81	DEC 30.81	<T 0.01	0.02	<T 0.005	<T 0.010	<T 0.010	0.010	0.0178

POOR

QUALITY

ORIGINAL